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U. S. DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU.

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DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE

PRINCIPAL RIVERS OF THE UNITED STATES.

VOLUME XXI.

FOR THE YEAR 1923.

BY

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INTRODUCTION.

This volume, containing the daily river stages for 1923, constitutes the twenty-first of a series of "Daily River Stages on the Principal Rivers of the United States," the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
 II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
 III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
 Daily Stages at River Gage Stations on the Principal Rivers of the United States.
 IV. 1890 to 1892.
 V. 1893 to 1895.
 VI. 1896 to 1899.
 VII. 1900 to 1904.
 VIII. 1905 and 1906.
 IX. 1907 and 1908.
 X. 1909 and 1910.
 XI. 1911 and 1912.
 XII. 1913 and 1914.
 XIII. 1915.
 XIV. 1916.
 XV. 1917.
 XVI. 1918.
 XVII. 1919.
 XVIII. 1920.
 XIX. 1921.
 XX. 1922.

Volumes I to XII are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

In order that all readings for a given station may be comparable, a table of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This table immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following table:

DISTRICT CENTERS AND TERRITORIES.

Albany, N. Y.-----	Drainage area of the Hudson River.
Atlanta, Ga.-----	Drainage area of the Apalachicola River.
Augusta, Ga.-----	Drainage area of the Savannah River.
Binghamton, N. Y.-----	Drainage area of the Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.-----	Drainage area of the Missouri River at and above Bismarck, N. Dak.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio. ¹ -----	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River, the Little Miami, and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky.
Columbia, S. C. ¹ -----	Drainage area of the Santee River.
Columbus, Ohio.-----	Drainage areas of the interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.-----	Drainage area of the Merrimac River.
Dallas, Tex.-----	Drainage area of the Trinity River above Long Lake, Tex.
Davenport, Iowa. ² -----	Mississippi River from below Dubuque to Muscatine, Iowa.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Dayton, Ohio.....	Miami River.
Denver, Colo.....	Drainage area of the Colorado River, except the Gila River; Arkansas River in the State of Pecos River; Rio Grande above El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.....	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids, Wabash River.
Evansville, Ind. ¹	Drainage area of the Ohio River from below Hawesville, Ky., to the mouth of but not in Wabash River.
Fort Smith, Ark.....	Drainage area of the Arkansas River from the Kansas-Oklahoma line to Fort Smith, Ark. the Canadian River.
Fort Wayne, Ind.....	Drainage area of the Maumee River.
Fresno, Calif.....	Drainage area of the San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.....	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ²	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines of Des Moines, Iowa.
Harrisburg, Pa.....	Susquehanna River drainage area, except at and above Binghamton, N. Y.
Hartford, Conn.....	Drainage area of the Connecticut River.
Houston, Tex.....	Drainage areas of the Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake to mouth.
Indianapolis, Ind.....	Drainage area of the White River.
Kansas City, Mo.....	Missouri River from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River at Knoxville, Tenn.; Holston and French Broad Rivers.
La Crosse, Wis. ²	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.....	Grand River from headwaters to and including Grand Ledge, Mich.
Little Rock, Ark.....	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Los Angeles, Calif.....	Drainage area of the Los Angeles River.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannonsville, Ky.
Macon, Ga.....	Drainage area of the Altamaha River.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River.
Meridian, Miss.....	Drainage areas of the Pearl and Pascagoula Rivers.
Minneapolis, Minn. ²	Mississippi River at and above St. Paul, Minn.
Mobile, Ala. ¹	Drainage area of the Tombigbee River.
Montgomery, Ala. ¹	Drainage area of the Alabama River.
Moorhead, Minn.....	Drainage area of the Red River of the North.
Nashville, Tenn. ¹	Drainage area of the Cumberland River.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.....	Drainage area of the Canadian River to boundary of New Mexico.
Omaha, Nebr.....	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., except Kanawha River.
Philadelphia, Pa.....	Drainage area of the Delaware River.
Phoenix, Ariz.....	Drainage area of the Gila River.
Pittsburgh, Pa. ¹	Drainage areas of the Allegheny and Monongahela Rivers; Ohio River from Pittsburgh to Wheeling, W. Va.
Portland, Me.....	Rivers of Maine.
Portland, Oreg.....	Drainage area of the Columbia River.
Raleigh, N. C.....	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.....	Drainage area of the James River.
Sacramento, Calif.....	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, Eel, and Feather Rivers.
Saginaw, Mich.....	Drainage area of the Saginaw River.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; River east of Lexington, Mo., except the Osage River in Kansas; Illinois River; White, St. Francis Rivers in the State of Missouri.
San Antonio, Tex.....	Drainage areas of the Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas; Rio Grande at El Paso, Tex., to mouth.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Terre Haute, Ind.....	Drainage area of the Wabash River, except the White River.
Topeka, Kans.....	Drainage areas of the Kansas River and the Osage River in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.....	Drainage area of the Potomac River.
Wausau, Wis.....	Drainage area of the Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.....	Drainage area of the Arkansas River in the State of Kansas.

¹ Forecasts made daily throughout the year.² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS.

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Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Con.

[Stations taking occasional observations only printed in italics. Reference notes are at the end of this table.]

Station.	Established.	River.	Distance above mouth of river (miles).	Drainage area above station (square miles).	Flood stage (feet).	Highest stage (feet).	Date.	Lowest stage (feet).	Date.	Width of river at low water (feet).	Bankful stage (feet).	Width of river at bankful stage (feet).	Elevation of zero of gage above mean sea level (feet).
MISSISSIPPI DRAINAGE—continued													
Ohio Basin—Contd.													
Hinton, W. Va.	June 4, 1887	Kanawha-New	156	6,160	14	20.2	Sept. 13, 1878.	0.5	(?)	600	14	700	1,365.2
Kanawha Falls, W. Va.	Jan. 1, 1914	Kanawha	95	8,370	25	37.8	Sept. 14, 1878.	-0.9	Oct. 29, 1921.	650	25	1,040	618.7
Charleston, W. Va.	June 4, 1887	Kanawha	58	10,490	30	46.9	Sept. 29, 1861.	-0.1	Sept. 15, 1881.	600	30	700	554.5
Renick, W. Va.	Dec. 1, 1915	Greenbrier	74	680	17	21.6	Sept. 27, 1889.	0.0	Aug. 30, 1917.	290	17	330	1,853.4
Camden-on-Gauley, W. Va.	Dec. 5, 1901	Gauley	71	236	20	21.7	Dec. 15, 1901.	-1.8	(?)	160	20	215	2,005.7
Gassaway, W. Va.	Apr. 1, 1918	Elk	95	578	24	44.0	Mar. 13, 1918.	1.0	Aug. 24, 1911.	160	24	380	796.3
Clay, W. Va.	Dec. 1, 1915	Elk	51	1,010	18	32.4	Mar. 14, 1918.	0.3	Sept. 26, 1917.	190	18	270	676.6
Sissonville, W. Va.	Nov. 1, 1916	Pocataligo	25	207	33.0	33.0	Mar. 26, 1913.	1.0	Sept. 7, 1913.	30	30	300	1,853.4
Logan, W. Va.	Nov. 1, 1915	Guyandotte	79	890	20	27.0	Jan. 28, 1918.	0.0	Oct. 10, 1923.	135	20	240	638.4
Lock No. 3, Louisa, Ky.	Nov. 1, 1912	Big Sandy	27	3,760	50	48.4	Apr. 3, 1908.	0.7	Sept. 25, 1887.	200	50	450	516.8
Pikeville, Ky.	June 1, 1907	Big Sandy, Levisa Fork.	89	1,202	35	49.0	Jan. 28, 1918.	0.0	July —, 1898.	222	40	894	635.5
Williamson, W. Va.	Nov. 1, 1901	Big Sandy, Tug Fork.	57	868	38	38.1	Jan. 29, 1918.	-0.8	Oct. 2, 1908.	200	40	360	620.6
Larue, Ohio	Mar. 16, 1916	Scioto	164	255	11	17.8	Mar. 26, 1913.	2.0	July 11, 1919.	85	9	120	910.2
Prospect, Ohio	Nov. 16, 1904	Scioto	147	554	10	21.1	Mar. 26, 1913.	0.2	Oct. 2, 1910.	150	8	150	891.7
Bellpoint, Ohio	June 1, 1914	Scioto	134	770	9	20.9	Mar. 25, 1913.	1.2	Aug. 22, 1921.	200	6	273	840.0
Dublin, Ohio	Apr. 1, 1916	Scioto	123	1,020	8	15.5	Mar. 26, 1913.	-1.9	Jan. 31, 1918.	280	6	370	758.0
Columbus, Ohio	July 1, 1897	Scioto	110	1,610	22	22.9	Feb. 9, 1918.	-0.8	July 27, 1923.	522	24	578	700.0
Circleville, Ohio	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913.	-2.0	Aug. 8, 1917.	425	7	507	647.0
Chillicothe, Ohio	June 5, 1907	Scioto	68	3,850	16	39.8	Mar. 26, 1913.	1.0	Sept. 27, 1916.	200	15	300	594.0
Delaware, Ohio	June 16, 1910	Olentangy	25	415	9	25.5	Mar. 25, 1913.	-0.5	Aug. 31, 1921.	180	9	253	848.6
Kings Mills, Ohio	July 1, 1912	Little Miami	25	793	17	33.7	Mar. 26, 1913.	0.5	(?)	175	17	320	586.8
Farmers, Ky.	Oct. 5, 1904	Licking	172	768	25	31.1	Feb. 9, 1918.	0.5	(?)	135	22	314	635.7
Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	42.8	Aug. 2, 1854.	0.0	Sept. 12, 1887.	252	26	300	512.2
Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork	46	648	20	35.0	Feb. 6, 1884.	0.0	(?)	185	20	300	683.8
Sidney, Ohio	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913.	0.2	Sept. 18, 1917.	110	12	200	924.7
Piqua, Ohio	Nov. 16, 1904	Miami	119	850	17	29.1	Mar. 25, 1913.	1.4	Dec. 16, 1922.	150	17	350	844.0
Tippecanoe City, Ohio	July 1, 1923	Miami	102	1,016	25	22.9	Mar. 25, 1913.	-0.8	July 27, 1923.	100	25	250	788.8
Dayton, Ohio	Oct. 1, 1892	Miami	83	2,625	21	31.7	Mar. 25, 1913.	0.6	Aug. 14, 1919.	350	21	600	721.0
Miamisburg, Ohio	July 1, 1923	Miami	78	2,720	22	33.6	Mar. 26, 1913.	0.2	July 18, 1923.	350	22	665	678.4
Franklin, Ohio	July 1, 1923	Miami	73	2,785	16	23.0	Mar. 26, 1913.	0.6	July 18, 1923.	260	16	365	658.4
Middletown, Ohio	July 1, 1923	Miami	63	3,162	15	29.0	Mar. 26, 1913.	0.1	July 28, 1923.	250	15	300	624.6
Hamilton, Ohio	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913.	-1.1	Sept. 16, 1923.	400	17	500	560.0
Springfield, Ohio	Dec. 1, 1913	Mad	27	488	10	19.2	Mar. 25, 1913.	0.9	Aug. 20, 1914.	50	10	100	887.8
Pleasant Hill, Ohio	Mar. 1, 1922	Stillwater	22	453	13	17.5	Mar. 25, 1913.	1.0	Aug. 2, 1923.	200	13	250	846.6
Beattyville, Ky.	May 1, 1902	Kentucky	255	1,654	30	46.3	Feb. 23, 1890.	-2.6	June 6, 1916.	400	30	800	626.2
Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.6	Mar. 27, 1913.	4.7	Nov. 24, 1912.	350	25	450	505.4
Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	Feb. —, 1878.	0.4	(?)	400	30	500	464.8
Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	Jan. 10, 1913.	6.1	Sept. 10, 1919.	290	40	520	402.8
Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913.	5.0	Sept. 17, 1902.	450	44	600	373.6
Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,600	34	47.5	Jan. 19, 1913.	3.7	July 28, 1902.	700	40	1,000	343.5
Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	36.5	Jan. 3, 1919.	—	—	112	20	250	—
Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	12	20.0	Mar. 26, 1913.	0.7	June 23, 1913.	190	10	200	790.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	6,200	11	32.9	Mar. 26, 1913.	0.3	July 9, 1895.	450	11	500	501.1
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	21.3	Mar. 27, 1913.	-2.0	Feb. 6, 1892.	540	16	602	447.3
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 29, 1913.	-1.0	Dec. 1, 1922.	742	14	782	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28,590	16	31.0	Mar. 30, 1913.	-0.2	Nov. 7, 1895.	600	19	1,680	372.1
Decker, Ind.	Dec. 1, 1913	White	18	10,717	18	28.8	Mar. 29, 1913.	0.0	Nov. 23, 1913.	600	18	675	387.4
Seymour, Ind.	Apr. 17, 1923	White, E. Fork	118	2,140	10	18.1	Mar. 26, 1913.	0.0	(?)	300	10	412	555.8
Williams, Ind.	Dec. 1, 1920	White, E. Fork	62	4,672	10	20	Mar. 28, 1913.	1.7	Dec. 7, 1914.	290	10	—	475.0
Shoals, Ind.	May 1, 1908	White, E. Fork	42	4,900	20	42.2	Mar. 28, 1913.	1.7	Dec. 7, 1914.	300	25	450	443.0
Anderson, Ind.	Dec. 1, 1910	White, W. Fork	185	503	12	22.1	Mar. 25, 1913.	0.6	(?)	126	8	400	827.4
Noblesville, Ind.	Dec. 1, 1913	White, W. Fork	149	826	14	23.8	Mar. 25, 1913.	3.0	Aug. 29, 1914.	226	14	1,646	737.0
Indianapolis, Ind.	Dec. 1, 1911	White, W. Fork	124	1,610	18	29.5	Mar. 26, 1913.	1.6	Aug. 12, 1911.	260	12	400	670.7
Elliston, Ind.	May 1, 1908	White, W. Fork	51	4,066	19	31.3	Mar. 27, 1913.	3.0	(?)	300	18	500	473.2
Edwardsport, Ind.	May 16, 1923	White, W. Fork	30	4,772	14	24.0	(?)	—	—	60	10	100	436.0
Williamsburg, Ky.	Feb. 1, 1908	Cumberland	589	1,963	22	33.0	Mar. 30 or 31, 1886.	-2.5	Sept. 16, 1919.	200	19	300	892.4
Burnside, Ky.	Dec. 15, 1884	Cumberland	519	5,121	50	69.5	Jan. 29, 1918.	-1.6	Nov. 8, 1895.	200	50	350	589.5
Celina, Tenn.	Dec. 1, 1903	Cumberland	383	7,521	45	55.2	Feb. 1, 1918.	-0.2	Oct. 6, 1911.	350	45	600	493.7
Carthage, Tenn.	Feb. 10, 1885	Cumberland	308	10,221	40	54.4	Apr. 7, 1886.	-0.4	Nov. 16, 1902.	450	40	540	443.0
Nashville, Tenn.	May 18, 1873	Cumberland	193	12,860	40	55.3	Jan. 22, 1882.	-0.1	Sept. 13, 1881.	400	40	675	366.2
Clarksville, Tenn.	Dec. 1, 1900	Cumberland	127	14,421	46	60.6	Jan. —, 1882.	-1.0	Sept. 18, 1913.	500	46	705	328.0
Lock E Canton, Ky.	Nov. 24, 1922	Cumberland	66	15,206	50	61.5	Jan. —, 1882.	4.0	(?)	530	50	710	301.6
New River, Tenn.	Feb. 1, 1908	New	67	355	25	33.0	Feb. —, 1903.	0.7	Sept. 29, 1913.	158	18	177	1,090.0

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued.

1923.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1923.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
GREEN RIVER—LOCK NO. 2, RUMSEY, KY. (LOWER GAGE).													WABASH RIVER—LAFAYETTE, IND.												
[Flood stage, 34 feet; pool stage, 6.2 feet.]													[Flood stage, 11 feet.]												
1.	14.7	39.7	13.2	26.9	12.8	15.4	7.5	6.7	7.3	6.7	6.5	13.8	1	3.9	3.9	6.8	3.2	2.1	3.2						2.0
2.	13.2	40.2	13.3	21.0	12.2	14.9	7.4	6.7	7.2	6.7	6.5	12.7	2	5.5	3.2	6.6	3.2	2.1	2.9						2.1
3.	12.3	40.6	12.5	15.7	11.2	13.0	7.3	7.5	7.0	6.6	6.5	11.7	3	5.5	5.2	4.1	2.9	1.9	2.7						2.4
4.	11.9	40.9	12.0	13.0	10.0	11.2	7.2	12.8	7.4	6.6	9.5	10.8	4	4.3	5.5	3.6	2.9	1.9	2.4						2.8
5.	11.1	41.2	11.2	16.5	9.5	9.7	7.0	14.1	7.4	6.5	10.5	11.4	5	3.7	4.2	5.7	3.5	1.9	2.4						4.8
6.	10.7	41.5	11.8	21.4	9.2	9.1	7.0	12.5	7.2	6.5	9.7	11.8	6	3.2	3.2	6.7	4.0	1.9	2.4						13.5
7.	10.0	41.9	19.7	24.8	9.0	9.2	7.0	13.7	7.5	6.5	9.3	12.0	7	2.9	3.0	6.0	6.3	1.8	2.2						15.2
8.	9.6	42.2	25.2	26.7	8.8	9.4	7.0	15.1	8.0	6.4	8.8	11.9	8	2.0	2.4	5.0	7.1	1.8	1.8	2.5					14.2
9.	9.2	42.3	28.0	26.8	8.5	9.4	7.2	14.6	8.0	6.4	8.5	11.7	9	2.4	2.7	4.6	6.5	1.8	1.8						10.7
10.	8.9	42.4	29.6	24.1	8.3	9.2	8.9	14.4	7.7	6.4	8.0	14.6	10	2.4	2.7	4.2	5.2	1.8	1.8						8.2
11.	8.7	42.4	30.7	19.0	8.2	8.9	8.8	14.3	7.5	6.4	7.6	15.2	11	2.4	2.4	3.9	4.3	1.8	1.8						7.5
12.	8.4	42.2	33.0	15.0	8.1	16.0	8.0	12.8	7.3	6.4	7.4	17.2	12	2.4	2.2	10.5	3.7	3.7	2.0	4.5					7.7
13.	8.2	42.1	34.3	15.5	8.0	20.9	7.7	11.0	7.0	6.4	7.2	19.0	13	2.8	3.4	15.2	3.5	0.9	2.0						8.7
14.	8.0	41.8	35.0	22.5	8.0	23.0	7.3	11.5	7.0	6.3	7.0	23.2	14	3.2	6.2	10.6	3.3	11.6	1.9						15.3
15.	10.0	41.4	35.5	26.5	12.5	23.3	7.0	11.8	6.9	6.3	6.8	24.6	15	3.2	6.4	15.1	3.3	12.0	1.7						17.5
16.	10.6	41.1	36.6	28.9	13.3	21.3	6.9	12.0	6.8	6.3	6.8	25.0	16	8.0	7.7	15.8	3.3	15.6	1.7						16.8
17.	11.4	40.7	37.2	30.5	11.9	18.5	6.9	12.5	6.8	6.3	6.7	24.9	17	8.2	6.9	19.6	3.1	17.7	1.7						13.8
18.	11.5	40.2	37.5	31.3	10.0	16.0	7.4	17.0	6.8	9.2	6.7	24.0	18	5.8	6.5	20.5	2.9	17.7	1.7						9.9
19.	10.8	39.5	37.8	31.2	11.2	14.4	7.6	18.2	6.6	10.7	6.7	22.1	19	4.7	5.8	19.3	2.9	15.7	1.5	1.5	1.4				8.0
20.	10.0	38.4	38.1	29.4	13.3	12.5	7.6	16.7	6.6	9.2	6.7	20.3	20	4.0	5.5	16.1	2.9	11.9	1.5						7.1
21.	18.5	36.4	38.3	26.3	14.2	10.2	7.4	14.0	7.5	8.3	6.6	20.4	21	3.6	6.1	11.1	2.6	8.9	1.5						9.3
22.	28.3	33.5	38.5	22.6	14.0	8.6	7.0	11.8	7.8	8.0	6.6	25.8	22	3.6	5.7	8.6	2.6	7.5	1.3						11.2
23.	30.5	29.0	38.3	18.6	13.0	8.2	6.9	11.3	8.2	8.0	6.6	29.1	23	4.5	5.1	7.1	2.6	5.9	1.3	1.7					13.6
24.	32.5	23.0	37.9	15.3	11.6	7.8	6.8	12.0	8.5	7.5	6.8	31.3	24	4.8	4.6	7.9	2.3	4.9	1.3						14.7
25.	33.9	16.5	37.5	13.2	10.0	7.6	6.8	11.8	8.3	7.2	7.0	32.6	25	3.9	4.3	8.3	2.3	4.2	1.0						14.7
26.	35.0	13.2	37.2	11.6	8.8	7.3	6.7	10.1	7.8	7.0	7.2	33.6	26	3.2	3.9	8.3	2.3	3.8	1.4						12.7
27.	36.2	13.1	37.1	11.0	8.4	7.2	6.6	9.0	7.3	6.8	7.9	34.3	27	2.9	5.5	5.9	2.3	3.8	1.4						10.6
28.	37.3	12.8	36.7	10.3	9.7	7.3	6.6	7.9	7.0	6.6	8.2	34.6	28	2.9	7.1	5.5	2.3	4.1	1.4	1.5	1.2				9.2
29.	38.1	-----	36.0	12.0	10.5	7.5	6.6	7.5	6.8	6.6	8.5	34.0	29	3.9	-----	4.5	2.1	3.8	1.4						9.0
30.	38.6	-----	34.5	13.0	11.4	7.7	6.6	7.6	6.7	6.5	13.2	32.2	30	5.9	-----	3.9	2.1	3.8	1.4						8.5
31.	39.0	-----	31.5	-----	13.7	-----	6.8	7.5	-----	6.5	-----	30.1	31	5.1	-----	3.6	-----	3.6	-----						7.1
Mean.	18.5	35.7	30.2	20.7	10.6	12.1	7.2	11.8	7.3	7.0	7.7	21.8	Mean.	4.0	-----	9.2	3.4	6.1	1.8	-----	-----	-----	-----	-----	10.0
WABASH RIVER—BLUFFTON, IND.													WABASH RIVER—TERRE HAUTE, IND.												
[Flood stage, 12 feet.]													[Flood stage, 16 feet.]												
1.	5.2	3.0	3.0	2.5	1.5	1.6	-----	2.4	-----	-----	-----	2.2	1.	3.9	5.4	(*)	5.2	2.2	6.5	1.9	0.8	1.9	1.1	2.0	1.5
2.	5.5	4.4	2.5	2.2	1.5	1.6	-----	-----	-----	-----	-----	2.1	2.	3.8	4.9	4.0	4.8	2.1	5.6	1.6	0.7	2.0	0.9	2.5	1.5
3.	5.0	4.4	2.8	2.2	1.4	1.6	-----	-----	-----	-----	-----	2.0	3.	3.8	4.4	6.2	4.5	2.0	4.6	1.2	0.7	2.0	0.8	2.3	1.5
4.	3.9	3.8	2.5	2.2	1.4	1.5	-----	-----	-----	-----	-----	2.3	4.	4.7	4.4	6.7	4.4	2.0	4.1	1.2	0.6	1.8	0.7	2.5	1.5
5.	3.0	2.8	2.7	2.3	1.3	1.5	-----	-----	-----	-----	-----	6.5	5.	4.4	4.5	5.8	4.5	1.8	3.7	2.2	0.9	1.4	0.6	2.7	3.6
6.	2.5	2.4	2.7	5.7	1.3	1.4	-----	-----	-----	-----	-----	6.8	6.	3.7	4.3	6.0	6.3	1.7	3.3	3.0	2.4	1.8	0.5	3.6	8.5
7.	2.3	2.2	3.5	6.4	1.2	1.5	1.3	-----	-----	-----	-----	6.0	7.	3.0	4.0	8.0	7.5	1.6	3.1	2.6	1.9	2.3	0.4	4.0	11.8
8.	2.1	2.1	3.0	4.5	1.2	1.6	-----	-----	-----	-----	-----	4.5	8.	2.6	3.0	8.1	7.6	1.6	3.0	3.0	3.2	2.5	0.3	4.4	13.2
9.	2.3	2.0	2.6	4.0	1.3	1.5	-----	-----	-----	-----	-----	3.5	9.	2.3	(*)	7.0	8.9	1.5	2.8	4.1	17	2.3	0.3	4.6	13.7
10.	2.6	2.0	4.5	3.0	1.3	1.4	-----	-----	-----	-----	-----	4.5	10.	2.1	(*)	5.9	8.6	1.4	2.4	3.3	17	2.0	0.2	4.3	14.0
11.	2.9	1.9	5.5	2.6	1.3	1.6	-----	-----	-----	-----	-----	4.8	11.	2.0	(*)	5.2	7.5	1.4	2.2	2.8	5.4	2.0	0.2	3.7	13.2
12.	2.5	1.7	8.3	2.3	3.4	1.4	2.1	-----	-----	-----	-----	4.0	12.	1.8	(*)	8.0	6.2	1.7	2.1	3.2	5.1	1.9	0.2	3.1	11.4
13.	2.4	3.9	7.8	2.2	7.0	1.4	-----	-----	-----	-----	-----	6.0	13.	1.6	(*)	12.7	5.2	8.1	2.0	3.6	4.0	1.5	0.2	2.6	10.9
14.	4.6	4.2	8.3	2.2	8.0	1.4	-----	-----	-----	-----	-----	7.3	14.	1.7	(*)	13.7	5.2	10.9	2.0	5.0	2.8	1.2	0.2	2.2	14.5
15.	6.5	(*)	7.3	2.3	12.0	1.3	-----	-----	-----	-----	-----	7.4	15.	2.5	(*)	13.9	5.6	12.9	1.9	3.6	2.2	0.9	0.2	2.0	15.0
16.	7.0	(*)	10.5	2.4	11.0	1.3	-----	-----	-----	-----	-----	7.0	16.	3.7	(*)	15.8	5.4	14.6	1.8	3.0	1.8	0.8	0.2	2.2	15.6
17.	6.7	(*)	10.0	2.2	11.0	1.3	-----	-----	-----	-----	-----	5.6	17.	5.2	(*)	17.5	4.9	15.3	1.8	2.4	1.5	0.7	0.2	2.2	16.2
18.	5.1	(*)	11.0	2.2	9.5	1.2	-----	-----	-----	-----	-----	3.8	18.	7.3	(*)	18.8	4.4	15.9	1.7	1.9	1.2	0.6	0.2	2.1	16.5
19.	3.4	(*)	9.3	2.0	6.5	1.2	-----	-----	-----	-----	-----	3.1	19.	6.8	(*)	19.2	4.2	16.3	1.6	1.9	1.1	1.4	1.5	2.0	16.7
20.	2.7	(*)	6.0	1.9	4.5	1.2	-----	-----	-----	-----	-----	3.4	20.	5.2	(*)	19.4	4.0	16.9	1.5	2.1	1.0	2.0	3.6	1.9	16.5
21.	4.5	2.5	3.8	1.8	3.9	1.2	-----	-----	-----	-----	-----	4.8	21.	4.4	(*)	19.6	3.8	17.1	1.2	1.6	0.9	1.8	5.7	1.8	15.5
22.	5.5	1.6	3.0	1.8	3.1	1.2	-----	-----	-----	-----	-----	6.5	22.	3.8	(*)	19.0	3.6	16.5	1.1						

Name.	Miscellaneous data.	Gage readings.	Name.	Miscellaneous data.	Gage readings.
	Page.	Page.		Page.	Page.
Roswell, N. Mex.	12		Trenton Falls, N. Y.	3	38
Rowlesburg, W. Va.	5	75	Tribes Hill, N. Y.	3	37
Sacramento, Calif.	13	170	Trinidad, Colo.	9	
Saginaw, Mich.	5	66	Trinidad, Tex.	11	155
Saginaw, Oreg.	13	179	Troy, N. Y.	3	36
St. Charles, Mo.	11	146	Tualitin, Oreg.	13	
St. John, Calif.	13		Tulsa, Okla.	9	127
St. Joseph, Mo.	10	145	Tuscumbia, Mo.	11	151
St. Louis, Mo.	8	116	Uhrichsville, Ohio	6	
St. Marys, W. Va.	6	77	Umatilla, Oreg.	13	175
St. Paul, Minn.	8	111	Union, Mo.	9	125
Salem, Oreg.	13	178	Union City, Okla.	10	
Salida, Colo.	9		Upper Muscle Shoals, Ala.	8	104
Saltair, Utah	12		Upper Sandusky, Ohio	5	64
Saltzburg, Pa.	5	73	Utica, N. Y.	3	
San Antonio, Tex.	12	159	Valley Junction, Tex.	12	156
San Benito, Tex.	12	163	Valley Park, Mo.	9	125
San Marcial, N. Mex.	12	161	Vancouver, Wash.	13	176
Santa Rosa, N. Mex.	12		Van Meter, Iowa	9	122
Sapinero, Colo.	12	160	Vassar, Mich.	5	68
Savannah, Tenn.	8	105	Vicksburg, Miss.	9	118
Scandia, Kans.	11		Victoria, Tex.	12	159
Schenectady, N. Y.	3	38	Vincennes, Ind.	7	98
Schoharie Junction, N. Y.	3	38	Waco, Tex.	12	156
Sedgwick, Kans.	9	129	Wahpeton, N. Dak.	11	152
Selma, Ala.	4	67	Wakefield, Kans.	11	
Seymour, Ind.	7	98	Walbonding, Ohio	6	80
Sharon, Pa.	6	84	Wamego, Kans.	11	148
Shawneetown, Ill.	6	83	Wapello, Iowa	9	
Sherburne, N. Y.	4	42	Warren, Pa.	5	72
Shields, Mich.	5	67	Warsaw, Ill.	8	114
Shoals, Ind.	7	99	Warsaw, Mo.	11	161
Shreveport, La.	10	138	Washburn, N. Dak.	10	142
Shubuta, Miss.	5	62	Washington, D. C.	4	
Sidney, Ohio	7	93	Washington, Tex.	12	156
Simmesport, La.	10	141	Waterloo, Oreg.	13	180
Sloux City, Iowa	10	144	Wausau, Wis.	9	120
Sissonville, W. Va.	7		Waverly, Mo.	11	145
Smithfield, N. C.	4	47	Webbers Falls, Okla.	9	127
Smithville, Tex.	12	158	Welser, Idaho	13	177
Solomon, Kans.	11	149	Weldou, N. C.	4	45
South Fork, Oreg.	13	181	Wenatchee, Wash.	13	175
Speers Ferry, Va.	8	108	West Newton, Pa.	6	75
Springbank, Ark.	10	138	West Point, Ga.	4	56
Springdale, Pa.	5	73	Wetumpka, Ala.	5	59
Springfield, Ohio	7	95	Whalen, Wyo.	11	
State Bridge, Colo.	12	164	Whitecliffs, Ark.	10	138
Steelville, Mo.	9	124	White River Junction, Vt.	3	35
Stuyvesant, N. Y.	3	37	Wichita, Kans.	9	126
Sunbury, Pa.	3	41	Wichita, Kans. (Midian Shrine Boathouse)	9	
Swan Lake, Miss.	10	136	Wickenburg, Ariz.	12	168
Tamaha, Okla.	9	127	Wilkes-Barre, Pa.	3	41
Tarboro, N. C.	4	46	Williams, Ind.	7	90
Tates Bluff, Ark.	10		Williamsburg, Ky.	7	100
Tazewell, Tenn.	8	109	Williamson, W. Va.	7	90
Tehama, Calif.	12		Williamsport, Pa.	4	43
Terra Haute, Ind.	7	97	Williamston, Mich.	5	71
Tescott, Kans.	11		Williston, N. Dak.	5	142
The Dalles, Oreg.	13	176	Winona, Minn.	8	112
Three Links, Oreg.	13		Wisconsin Rapids, Wis.	9	120
Three Rivers, Tex.	12	160	Wolf Point, Mont.	10	142
Tiffin, Ohio	5	65	Woodbury, Ga.	4	55
Tippecanoe City, Ohio	7	93	Woodward, Okla.	10	132
Tomahawk, Wis.	9	121	Wyandotte, Okla.	10	130
Topoka, Kans.	11	148	Yankton, S. Dak.	10	143
Topock, Ariz.	12	165	Yazoo City, Miss.	10	136
Towanda, Pa.	3	41	Yonkers, Okla.	10	130
Tracy, Iowa	9	122	Yuma, Ariz.	12	165
Trenton, Mo.	11		Zanesville, Ohio	6	85
Trenton, N. J.	3	39			

W. B. No. 869.

U. S. DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

DAILY RIVER STAGES
AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE UNITED STATES.

VOLUME XXII.
FOR THE YEAR 1924.

REFERENCE
DO NOT CIRCULATE

BY
H. C. FRANKENFIELD,
METEOROLOGIST.

Community Affairs File



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GOVERNMENT PRINTING OFFICE.
1925.

INTRODUCTION

This volume, containing the daily river stages for 1924, constitutes the twenty-second of a series of "Daily River Stages on the Principal Rivers of the United States," the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
 II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
 III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc. 1875 to 1889.
 Daily Stages at River Gage Stations on the Principal Rivers of the United States.
 IV. 1890 to 1892.
 V. 1893 to 1895.
 VI. 1896 to 1899.
 VII. 1900 to 1904.
 VIII. 1905 and 1906.
 IX. 1907 and 1908.
 X. 1909 and 1910.
 XI. 1911 and 1912.
 XII. 1913 and 1914.
 XIII. 1915.
 XIV. 1916.
 XV. 1917.
 XVI. 1918.
 XVII. 1919.
 XVIII. 1920.
 XIX. 1921.
 XX. 1922.
 XXI. 1923.

Volumes I to XII and XV are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

In order that all readings for a given station may be comparable, a table of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This table immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following table:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.-----	Hudson River.
Atlanta, Ga.-----	Apalachicola River system.
Augusta, Ga.-----	Savannah River.
Binghamton, N. Y.-----	Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.-----	Missouri River at and above Bismarck, N. Dak.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio. ¹ -----	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River, the Little Miami, and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky.
Columbia, S. C. ¹ -----	Santee River system.
Columbus, Ohio.-----	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.-----	Merrimac River.
Dallas, Tex.-----	Trinity River above Long Lake, Tex.
Davenport, Iowa. ² -----	Mississippi River from below Dubuque to Muscatine, Iowa.
Dayton, Ohio.-----	Miami River.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Denver, Colo.....	Colorado River, except the Gila River; Arkansas River in the State of Colorado; Pecos Grande above El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.....	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids.
Evansville, Ind. ¹	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.....	Arkansas River from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River.
Fort Wayne, Ind.....	Maumee River.
Fresno, Calif.....	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.....	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ²	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines River east of Des Moines, Iowa.
Harrisburg, Pa.....	Susquehanna River, except at and above Binghamton, N. Y.
Hartford, Conn.....	Connecticut River.
Houston, Tex.....	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.....	White River.
Kansas City, Mo.....	Missouri River from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River at Knoxville, Tenn.; Holston and French Broad Rivers.
La Crosse, Wis. ²	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.....	Grand River from headwaters to and including Grand Ledge, Mich.
Little Rock, Ark.....	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Los Angeles, Calif.....	Los Angeles River.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannonsburg, Ky.
Macon, Ga.....	Altamaha River system.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River, Ark.
Meridian, Miss.....	Pearl and Pascagoula Rivers.
Minneapolis, Minn. ²	Mississippi River at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee River.
Montgomery, Ala. ¹	Alabama River.
Moorhead, Minn.....	Red River of the North.
Nashville, Tenn. ¹	Cumberland River.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.....	Canadian River east of boundary of New Mexico.
Omaha, Nebr.....	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., except Kanawha River.
Philadelphia, Pa.....	Delaware River system.
Phoenix, Ariz.....	Gila River.
Pittsburgh, Pa. ¹	Allegheny and Monongahela Rivers; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Me.....	Rivers of Maine.
Portland, Oreg.....	Columbia River system.
Raleigh, N. C.....	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.....	James River.
Sacramento, Calif.....	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, Eel, and Feather Rivers.
Saginaw, Mich.....	Saginaw River system.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; River of Lexington, Mo., except the Osage River in Kansas; Illinois River; White, 1st, and 2nd Rivers in the State of Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas; Rio Grande from El Paso to mouth.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Terre Haute, Ind.....	Wabash River, except the White River.
Topeka, Kans.....	Kansas River and Osage River in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.....	Potomac River.
Wausau, Wis.....	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.....	Arkansas River in the State of Kansas.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS

7

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Continued

(Stations taking occasional observations only printed in italics. Reference notes are at the end of this table)

Station	Established	River	Distance above mouth of river (miles)	Drainage area above station (square miles)	Flood stage (feet)	Highest stage (feet)	Date	Lowest stage (feet)	Date	Width of river at low water (feet)	Bankful stage (feet)	Width of river at bankful stage (feet)	Elevation of zero of gage above mean sea level (feet)
MISSISSIPPI DRAINAGE—continued													
<i>Ohio Basin—Con.</i>													
Dublin, Ohio	Apr. 1, 1916	Scioto	123	1,020	8	15.5	Mar. 26, 1913	-2.6	Dec. 5, 1924	280	6	370	758.0
Columbus, Ohio	July 1, 1897	Scioto	110	1,610	22	22.9	Mar. 25, 1913	-0.8	July 27, 1923	522	24	578	700.0
Circleville, Ohio	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913	-2.0	Aug. 8, 1917	425	7	507	647.0
Chillicothe, Ohio	June 5, 1907	Scioto	58	3,850	16	39.8	Mar. 26, 1913	1.0	Sept. 27, 1916	200	15	300	594.0
Delaware, Ohio	June 16, 1910	Olentangy	25	415	9	25.5	Mar. 25, 1913	-0.5	Aug. 31, 1921	180	9	253	848.6
Kings Mills, Ohio	July 1, 1912	Little Miami	25	793	17	33.7	Mar. 26, 1913	0.5	(*)	175	17	320	586.8
Farmers, Ky.	Oct. 5, 1904	Licking	172	708	25	31.1	Feb. 9, 1918	0.5	(*)	135	22	314	635.7
Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	42.8	Aug. 2, 1884	0.0	Sept. 12, 1887	252	26	300	512.2
Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork	40	648	20	35.0	Feb. 6, 1884	0.0	(*)	185	20	300	653.8
Sidney, Ohio	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913	0.1	Sept. 1, 1924	110	12	260	924.7
Piqua, Ohio	Nov. 16, 1904	Miami	119	850	17	29.1	Mar. 25, 1913	1.4	Dec. 16, 1924	150	17	350	844.0
Tippecanoe City, Ohio	July 1, 1923	Miami	102	1,016	25	31.7	Mar. 25, 1913	0.6	July 27, 1923	100	25	250	788.8
Dayton, Ohio	Oct. 1, 1892	Miami	83	2,525	21	31.7	Mar. 25, 1913	0.6	Aug. 31, 1924	350	21	600	721.0
Miamisburg, Ohio	July 1, 1923	Miami	78	2,720	22	33.6	Mar. 26, 1913	0.0	Nov. 9, 1924	350	22	665	678.4
Franklin, Ohio	July 1, 1923	Miami	73	2,785	16	23.0	Mar. 26, 1913	0.3		260		365	658.4
Middletown, Ohio	July 1, 1923	Miami	63	3,162	15	29.0	Mar. 26, 1913	0.0	Oct. 8, 1924	250	15	300	624.6
Hamilton, Ohio	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913	-1.3	Oct. 26, 1924	400	17	500	560.0
Springfield, Ohio	Dec. 1, 1913	Mad.	25	477	11	16.9	Mar. 25, 1913	1.2	Jan. 31, 1924	110	11	300	882.0
Pleasant Hill, Ohio	Mar. 1, 1922	Stillwater	22	502	13	17.5	Mar. 25, 1913	1.0	July 12, 1921	200	13	250	846.6
Brookville, Ind.	Oct. 15, 1924	Whitewater	27	1,180	20	43.5	Mar. 26, 1913			170	20	450	595.7
Beattyville, Ky.	May 1, 1902	Kentucky	255	1,654	30	46.3	Feb. 23, 1890	-2.6	June 2, 1916	400	30	800	626.2
Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.6	Mar. 27, 1913	4.7	Nov. 12, 1912	350	25	450	605.4
Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	Feb. —, 1878	0.4	(*)	400	30	500	464.8
Munfordville, Ky.	July 16, 1924	Green	226	1,700	28	54.0	(*)			28	350		
Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	Jan. 10, 1913	6.1	Sept. 1, 1919	290	40	520	402.8
Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902	450	44	600	373.6
Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,000	34	47.5	Jan. 19, 1913	3.7	July 28, 1902	700	40	1,000	343.5
Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	36.5	Jan. 3, 1919			112	20	250	
Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	11	20.0	Mar. 26, 1913	0.7	June 23, 1913	190	10	200	790.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	6,200	11	32.9	Mar. 26, 1913	0.3	July 9, 1895	450	11	500	501.1
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892	540	16	662	447.3
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 29, 1913	-1.0	Jan. 1, 1922	14	14	782	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28,590	16	31.0	Mar. 30, 1913	-0.2	Nov. 7, 1895	742	19	1,680	372.1
Decker, Ind.	Dec. 1, 1913	White	18	10,717	18	28.8	Mar. 29, 1913	0.0	Nov. 23, 1913	600	16	675	387.4
Seymour, Ind.	Apr. 17, 1923	White, E. Fork	118	2,140	10	18.1	Mar. 26, 1913	0.0	(*)	300	10	412	555.8
Williams, Ind.	Dec. 1, 1920	White, E. Fork	62	4,672	10					290	10		475.0
Shoals, Ind.	May 1, 1908	White, E. Fork	42	4,930	20	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914	300	25	450	443.0
Anderson, Ind.	Dec. 1, 1910	White, W. Fork	185	503	12	22.1	Mar. 25, 1913	0.6	(*)	126	8	400	827.4
Noblesville, Ind.	Dec. 1, 1913	White, W. Fork	149	990	14	23.8	Mar. 25, 1913	3.0	Aug. 29, 1914	226	14	1,646	737.0
Indianapolis, Ind.	Dec. 1, 1911	White, W. Fork	124	1,610	18	29.5	Mar. 26, 1913	1.6	Aug. 12, 1911	260	12	400	670.7
Elliston, Ind.	May 1, 1908	White, W. Fork	51	4,066	19	31.3	Mar. 27, 1913	3.0	(*)	300	18	500	473.2
Edwardsport, Ind.	May 16, 1923	White, W. Fork	30	4,772	15	24.0	(*)			60	10	100	436.0
Williamsburg, Ky.	Feb. 1, 1908	Cumberland	589	1,963	22	33.0	Mar. 30 or 31, 1886	-2.5	Sept. 16, 1919	260	19	300	892.4
Burnside, Ky.	Dec. 15, 1884	Cumberland	519	4,890	50	69.5	Jan. 29, 1918	-1.6	Nov. 8, 1895	200	50	350	589.5
Celina, Tenn.	Dec. 1, 1903	Cumberland	383	7,521	45	55.2	Feb. 1, 1918	-0.2	Oct. 6, 1911	350	45	600	493.7
Carthage, Tenn.	Feb. 10, 1885	Cumberland	308	10,221	40	54.4	Apr. 7, 1886	-0.4	Nov. 16, 1902	450	40	540	443.0
Nashville, Tenn.	May 18, 1873	Cumberland	193	12,860	40	55.3	Jan. 22, 1882	-0.1	Sept. 13, 1881	400	40	675	366.2
Clarksville, Tenn.	Dec. 1, 1900	Cumberland	127	14,421	46	60.6	Jan. —, 1882	-1.0	Sept. 18, 1913	500	46	705	328.0
Lock F, Eddyville, Ky.	Dec. 1, 1923	Cumberland	44	15,656	57	65.7	Jan. —, 1882	-0.7	Oct. 14, 1894	250	50	800	288.3
New River, Tenn.	Feb. 1, 1908	New	67	355	25	33.0	Feb. —, 1903	0.4	Nov. 21, 1924	158	18	177	1,090.0
Knoxville, Tenn.	Feb. 1, 1883	Tennessee	648	8,990	12	44.4	Mar. 10, 1867	-1.5	Dec. 1, 1895	840	12	960	797.5
Loudon, Tenn.	Dec. 1, 1883	Tennessee	591	11,500	25	47.0	Mar. 10 or 11, 1867	-1.1	Nov. 2, 1904	1,400	22	2,500	724.6
Rockwood, Tenn.	Feb. 19, 1883	Tennessee	553	16,200	20	44.5	Mar. 10 or 11, 1867	-0.8	Dec. 1, 1894	2,220	25	2,700	698.9
Chattanooga, Tenn.	Dec. 1, 1876	Tennessee	464	21,418	33	57.7	Mar. 11, 1867	0.0	Sept. —, 1837	1,165	33	1,317	617.8
Hales Bar, Guild, Tenn. (above dam).	Jan. 1, 1917	Tennessee	431	22,000	50	54.0	Mar. 11, 1867	0.0	Sept. —, 1881	1,400		1,400	583.1
Hales Bar, Guild, Tenn. (below dam).	Jan. 1, 1917	Tennessee	431	22,000	32	47.3	Mar. 11, 1867	-0.7	Nov. 9, 1924	1,400	30	1,400	583.1
Bridgeport, Ala.	Apr. 13, 1896	Tennessee	414	22,650	24	41.2	Mar. 11 or 12, 1867	-1.9	Nov. 10, 1924	470	18	1,910	585.0
Guntersville, Ala.	Nov. 1, 1904	Tennessee	358	23,854	31	48.0	Mar. —, 1867	-0.4	Nov. 18, 1924	1,650	30	1,950	542.5
Decatur, Ala.	Apr. 9, 1909	Tennessee	304	26,267	21	29.5	Mar. 15, 1867	-0.8	Oct. 25, 1884	1,600	21	1,800	534.1
Upper Muscle Shoals, Ala.	Sept. 1, 1896	Tennessee	288	27,225		12.8	Mar. 20, 1897	10.1	Nov. 12, 1924	3,500	6	3,800	522.5
Lower Muscle Shoals, Ala.	Aug. 22, 1890	Tennessee	263	30,768		19.8	July 9, 1924	0.0	Oct. 21, 1904	2,500	13	2,800	418.5
Florence, Ala.	Nov. 1, 1890	Tennessee	256	30,790	18	32.5	Mar. 19, 1897	-1.0	Nov. 27, 1924	2,000	18	2,080	400.8
Riverton, Ala.	Oct. 1, 1903	Tennessee	226	30,850	33	58.4	Mar. 20, 1897	5.0	Oct. 24, 1904	1,075	33	1,300	351.4
Savannah, Tenn.	June 16, 1905	Tennessee	190	31,050	40	59.6	Mar. 21, 1897	0.0	(*)	600	39	900	337.1
Johnsonville, Tenn.	Oct. 1, 1875	Tennessee	96	38,470	31	48.0	Mar. 24, 1897	-0.9	Oct. 26, 1904	1,320	31	1,500	315.9

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1924	January	February	March	April	May	June	July	August	September	October	November	December
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GREEN-BIG BARREN RIVER—BOWLING GREEN, KY.

[Flood stage, 20 feet]

1							5.2	5.3	4.9	5.0	5.0	5.0
2							5.2	5.3	5.0	5.0	5.0	5.0
3	17.0						5.2	5.3	5.1	5.0	5.0	5.0
4							5.2	5.3	5.1	5.0	5.0	5.0
5			4.3				5.2	5.3	5.0	5.0	5.0	5.0
6							5.2	5.3	5.0	5.0	5.0	5.0
7							5.5	5.3	5.0	5.0	5.0	5.0
8							5.6	5.3	4.9	5.0	5.0	15.4
9							5.5	5.3	4.9	5.0	5.0	20.4
10							5.3	5.3	4.9	5.0	5.0	21.0
11	8.0						5.2	5.3	4.9	5.0	5.0	18.2
12							5.2	5.2	4.9	5.0	5.0	10.4
13							5.3	5.1	4.9	5.0	5.0	8.2
14					6.0		5.4	5.0	4.9	5.0	5.0	7.0
15							6.0	5.0	4.9	5.0	5.0	6.5
16	(*)						6.1	5.0	4.9	5.0	5.0	6.2
17							5.9	5.0	4.9	5.0	5.0	5.9
18							5.6	5.0	4.9	5.0	5.0	5.8
19							5.4	5.0	4.9	5.0	5.0	5.7
20							5.4	5.0	4.9	5.0	5.0	5.6
21							5.4	5.0	4.9	5.0	5.0	5.5
22							5.3	4.9	5.2	5.0	5.0	5.4
23							5.3	4.9	5.2	5.0	5.0	5.3
24							5.3	4.9	5.2	5.0	5.0	5.2
25							5.3	4.9	5.1	5.0	5.0	5.6
26							5.3	4.9	5.1	5.0	5.0	5.9
27							5.3	4.9	5.1	5.0	5.0	5.8
28							5.3	4.9	5.1	5.0	5.0	5.6
29		3.1			5.5		5.3	4.9	5.1	5.0	5.0	5.3
30							5.3	4.9	5.1	5.0	5.0	5.2
31			11.6				5.3	4.9		5.0		5.2
Mean							5.4	5.1	5.0	5.0	5.0	7.5

WABASH RIVER—BLUFFTON, IND.

[Flood stage, 12 feet]

1	2.9	6.3	4.0	10.7	2.6	2.5			1.3			1.1
2	2.8	6.6	4.8	8.1	2.6	2.4			5.1			1.0
3	2.5	4.6	3.7	5.6	2.3	3.0			3.2			1.0
4	2.3	4.2	3.7	4.1	3.8	4.4						1.0
5	2.3	5.6	6.6	3.5	4.0	4.6						1.2
6	2.3	6.4	7.1	3.2	2.8	6.8						1.2
7	2.3	6.3	7.3	3.1	2.3	6.7						1.1
8	2.3	3.7	5.5	3.0	2.5	9.0						1.8
9	2.0	3.1	3.5	3.0	3.2	9.5		1.3				1.8
10	2.0	2.9	2.8	2.9	2.7	9.8						2.3
11	7.1	2.6	2.6	2.8	3.5	10.2						2.2
12	7.5	2.6	2.5	2.8	4.3	9.7						1.8
13	7.9	2.5	4.8	2.6	3.5	7.8						1.7
14	7.8	2.5	5.3	2.6	2.8	6.2						1.7
15	6.5	2.5	4.0	2.5	4.0	5.2						1.4
16	3.9	2.5	2.9	2.3	3.3	6.8						1.4
17	5.0	2.4	2.7	2.1	2.7	6.2						2.2
18	4.6	2.3	2.5	1.9	2.4	6.4						7.7
19	3.5	2.3	2.5	2.0	2.3	5.1						11.4
20	2.5	1.9	2.6	1.9	2.3	3.5						11.0
21	2.5	2.6	2.6	1.9	2.1	3.0						11.0
22	2.5	2.6	2.5	3.7	2.0	2.8						10.1
23	2.5	2.3	4.1	4.6	1.9	2.7		1.3				8.2
24	2.2	2.2	5.4	3.3	3.0	2.9						5.0
25	2.0	2.2	7.0	2.6	4.6	4.2						3.2
26	2.0	2.3	8.0	2.3	3.8	2.9						3.9
27	1.8	2.1	8.0	2.0	2.6	2.7						3.5
28	1.7	2.5	7.8	2.0	2.3	2.6						3.4
29	2.0	3.2	11.0	2.5	2.2	4.9						3.4
30	5.6		10.9	2.5	2.4	5.3						2.0
31	5.9		12.0		3.6							1.9
Mean	3.9	3.3	5.2	3.3	2.9	5.3						3.6

* Frozen.
 † Frozen, but open at gage.
 • Ice reading.

‡ 13.2 at 5 p. m.
 § 21.5 at 9.35 p. m.

¶ 11.6 at 4 p. m.
 ** 11.4 at 6 p. m.

†† Ice gorge below.
 ‡‡ 17.2 at 5 p. m.

§§ 16.1 at 6 p. m.
 §§§ 17.4, 9 a. m. to 6 p. m.

¶¶ 7.3 at noon.

1924	January	February	March	April	May	June	July	August	September	October	November	December
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WABASH RIVER—LAFAYETTE, IND.

[Flood stage, 11 feet]

1	6.3	22.0	5.4	20.3	8.4	3.0						1.2
2	5.4	13.9	5.8	17.7	8.3	4.2			2.9			1.1
3	4.9	9.6	6.0	14.0	6.9	5.2						1.4
4	4.2	8.5	5.3	11.1	6.8	5.0						1.3
5	3.7	11.1	5.2	9.3	5.1	5.6						1.3
6	1.8	14.0	9.5	7.8	5.1	7.5						1.6
7	1.8	13.6	10.2	7.2	4.8	9.6						1.7
8	4.0	9.6	8.1	6.4	4.6	10.8						1.9
9	4.0	7.0	6.9	5.8	4.8	13.7						3.5
10	4.0	5.9	5.4	5.5	5.2	17.0						3.4
11	6.3	5.2	4.9	5.2	5.5	18.6						3.3
12	10.9	5.0	4.6	4.9	7.8	17.4						2.8
13	12.0	4.5	4.6	4.5	7.6	13.9						2.7
14	9.7	3.9	7.4	4.5	7.2	10.9						2.4
15	7.0	3.9	10.3	4.2	5.6	8.4						2.2
16	6.2	4.3	8.4	4.2	5.2	7.2						2.2
17	5.4	4.6	6.3	4.7	4.8	7.9						2.5
18	6.3	3.5	6.0	5.7	4.5	8.1						4.9
19	5.7	3.8	5.0	5.6	3.7	7.0						15.1
20	4.6	3.1	5.3	6.4	4.0	5.5		1.6				19.6
21	3.8	2.8	4.9	5.9	3.8	5.4						21.2
22	2.5	3.6	5.3	5.1	3.7	6.0						20.2
23	4.0	3.3	5.5	8.1	3.4	5.2						15.9
24	5.0	2.9	5.5	8.4	3.4	5.0						9.9
25	6.0	2.6	10.4	6.6	4.2	5.4						6.6
26	4.5	2.8	14.2	5.4	5.8	12.7						5.2
27	3.9	3.2	15.5	5.3	5.4	12.0						3.9
28	3.9	3.8	14.8	6.9	4.6	8.2						5.9
29	4.9	5.1	15.0	11.3	4.0	9.9						5.9
30	11.8		20.0	9.2	3.9	9.4						5.9
31	20.0		21.2		3.3							5.9
Mean	6.9	6.5	8.5	7.6	5.2	8.9						6.5

WABASH RIVER—TERRE HAUTE, IND.

[Flood stage, 16 feet]

1	11.0	10.9	5.4	19.6	13.0	6.5	14.0	1.7	1.9	0.9	0.3	0.4
2	9.2	15.1	6.3	20.0	12.5	5.5	13.6	1.7	3.3	0.8	0.3	0.4
3	7.8	17.2	6.7	19.7	11.5	6.0	12.1	2.3	7.0	0.8	0.3	0.3
4	7.1	¹⁰ 16.7	7.1	19.6	10.2	7.3	9.4	1.9	7.1	0.7	0.3	0.3
5	6.0	17.0	7.1	18.5	8.7	9.1	7.7	1.7	6.3	0.7	0.3	0.3
6	¹⁰ 3.0	¹⁰ 17.0	7.3	17.3	7.7	10.1	6.8	1.4	4.8	0.7	0.3	0.3
7	¹⁰ 3.0	17.0	8.6	15.5	6.8	14.2	5.0	1.2	3.8	0.7	0.3	1.0
8	¹⁰ 3.0	16.8	10.4	13.1	6.7	15.3	5.0	1.0	3.1	0.9	0.3	1.7
9	¹⁰ 3.0	16.5	10.3	10.3	6.9	¹⁵ 5.5	4.6	1.0	2.8	0.9	0.3	4.1
10	¹⁰ 3.0	15.6	9.0	8.7	7.3	¹⁵ 16.0	4.6	6.5	3.4	0.8	0.3	4.6
11	9.6	13.1	7.6	7.7	6.9	16.0	4.8	6.4	2.0	0.8	0.3	4.2
12	9.8	9.8	6.5	7.0	7.0	16.1	4.5	5.0	1.8	0.7	0.3	3.7
13	9.8	7.9	6.7	6.5	7.7	16.6	4.0	3.4	1.7	0.7	0.3	3.3
14	11.0	7.0	7.3	6.0	8.9	¹⁵ 17.3	3.8	2.7	1.5	0.6	1.0	2.9
15	11.0	6.4	8.0	5.8	8.1	17.3	3.5	2.3	1.5	0.5	0.7	2.5
16	10.0	6.0	10.2	5.6	7.1	16.3	3.0	2.3	1.3	0.5	0.4	2.2
17	¹⁰ 8.5	6.0	10.5	5.5	6.3	14.5	2.8	1.7	1.1	0.5	0.4	1.8
18	¹⁰ 6.5	6.7	9.1	8.0	6.0	11.6	2.6	1.4	1.0	0.5	0.4	3.4
19	¹⁰ 6.5	6.2	8.0	7.4	5.8	9.7	2.5	1.5	1.0	0.5	0.5	14.4
20	(*)	5.8	7.3	7.2	5.5	9.2	2.3	1.6	1.0	0.5	0.4	16.7
21	(*)	5.0	6.8	6.6	5.0	7.8	2.2	¹⁵ 7.0	1.7	0.4	0.4	18.8
22	(*)	4.5	6.6	5.9	4.7	7.8	2.2	6.6	2.1	0.4	0.4	19.2
23	(*)	3.8	6.8	5.5	4.4	9.6	2.0	4.8	2.2	0.4	0.4	19.2
24	¹⁰ 3.0	3.8	7.7	7.6	5.0	10.2	1.8	4.1	2.0	0.4	0.4	19.4
25	¹⁰ 3.0	3.8	8.8	8.8	7.8	8.7	1.7	4.2	1.9	0.3	0.4	19.3
26	¹⁰ 4.0	3.6	10.8	8.6	6.6	8.2	1.7	4.3	1.6	0.3	0.4	19.2
27	¹⁰ 3.8	3.4	12.5	8.8	6.6	11.1	1.7	4.1	1.6	0.3	0.4	18.0
28	¹⁰ 3.6	3.6	13.4	10.0	7.3	12.7	1.6	3.5	1.3	0.3	0.4	9.8
29	¹⁰ 3.6	4.4	14.6	10.7	6.6	13.3	1.6	2.8	1.2	0.3	0.4	6.6
30	¹⁰ 6.6	---	16.8	11.7	9.3	13.9	2.2	2.2	1.0	0.3	0.4	(*)
31	¹⁰ 9.6	---	19.0	---	8.0	---	2.0	1.8	---	0.3	---	(*)
Mean	7.9	9.3	9.1	10.5	7.5	11.8	4.4	3.0	2.4	0.6	0.4	7.5

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1924	January	February	March	April	May	June	July	August	September	October	November	December	1924	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—VINCENNES, IND.													WABASH—WHITE RIVER—DECKER, IND.												
[Flood stage, 14 feet]													[Flood stage, 18 feet]												
1.....	12.8	6.5	3.7	13.4	9.6	8.3	10.9					0.4	1.....	17.6	6.8	6.0	14.0	15.0	10.9						1.6
2.....	12.7	8.1	4.5	14.5	10.4	7.5	11.0					0.4	2.....	16.0	8.5	5.8	15.0	15.6	11.5						1.0
3.....	11.6	10.8	4.8	16.0	10.7	6.4	11.0					0.4	3.....	14.5	10.5	5.6	16.5	15.5	11.5		2.0				1.0
4.....	10.8	11.6	5.9	17.6	10.2	5.9	10.8					0.4	4.....	13.0	11.0	5.0	17.5	14.9	10.5						1.0
5.....	9.8	13.0	6.2	18.4	9.4	6.0	9.6					0.4	5.....	12.0	12.0	7.0	18.6	13.5	8.5						1.0
6.....	8.6	13.2	6.4	18.6	8.7	7.9						0.5	6.....	10.2	12.7	9.5	19.5	11.5	8.3						1.0
7.....	7.8	14.0	6.6	18.3	7.5	8.9						0.5	7.....	9.5	12.9	10.0	18.8	9.5	10.0						0.9
8.....	6.2	14.7	6.9	17.6	6.8	10.7						1.0	8.....	7.8	13.5	12.0	16.0	8.0	12.0						1.1
9.....	4.6	15.2	7.8	16.8	6.4	11.7						2.2	9.....	7.0	13.8	12.6	11.6	7.0	12.6						2.2
10.....	3.8	15.3	8.4	15.3	6.2	12.1						2.6	10.....	7.0	13.0	12.8	9.8	6.8	12.8						2.9
11.....	3.7	15.2	8.6	12.8	6.8	12.6						2.8	11.....	10.0	12.0	12.8	8.5	6.6	13.4						4.3
12.....	3.7	14.6	8.8	9.3	7.0	13.0						3.6	12.....	12.6	10.0	12.0	7.5	7.0	13.6						5.9
13.....	8.8	14.0	8.8	7.8	6.5	13.3						3.4	13.....	14.6	8.5	11.0	7.0	7.0	13.8		3.8				6.0
14.....	8.7	12.6	8.4	7.0	6.6	13.4						3.2	14.....	15.7	8.0	10.0	6.5	8.5	13.6						5.8
15.....	8.7	9.5	8.2	6.5	7.0	13.6						3.0	15.....	16.5	7.6	10.0	6.8	8.4	13.6						5.0
16.....	8.7	7.5	7.6	6.1	6.8	14.0						2.5	16.....	17.0	7.0	10.8	7.4	8.0	13.4						4.1
17.....	9.7	6.6	7.8	6.0	6.4	14.5						2.2	17.....	17.7	7.0	11.0	6.5	7.0	13.0						3.3
18.....	8.9	6.2	8.5	5.4	5.8	14.7						2.1	18.....	17.5	7.0	10.5	6.0	6.5	11.0						5.1
19.....	7.8	6.2	8.8	5.3	5.6	14.3						2.1	19.....	17.0	7.0	10.0	6.0	6.0	9.0						3.0
20.....	7.5	6.2	7.8	6.2	5.8	12.6			1.6			9.8	20.....	16.0	7.0	8.5	5.8	5.5	8.6		4.2				3.0
21.....	7.1	6.0	7.2	6.8	5.1	10.0						11.3	21.....	14.5	7.0	8.0	5.5	6.5	8.4						5.1
22.....	5.4	5.8	7.0	6.9	4.9	8.6			2.8			11.8	22.....	13.0	9.0	8.0	5.5	7.0	7.0						6.8
23.....	4.5	5.6	6.8	6.6	4.4	7.8						12.8	23.....	10.5	9.9	8.5	5.5	7.2	6.5						8.4
24.....	3.8	4.9	6.5	5.2	4.5	8.3						13.5	24.....	8.5	9.0	9.0	5.0	7.5	8.0						9.8
25.....	3.6	4.6	6.6	5.2	5.8	8.8						14.5	25.....	7.0	8.5	10.0	4.8	8.5	8.0						11.0
26.....	3.5	4.0	6.8	6.4	6.7	8.3						15.3	26.....	6.0	7.2	10.5	4.7	9.0	8.7						11.5
27.....	3.3	3.9	7.7	7.5	6.8	7.4						15.7	27.....	6.0	6.5	10.5	5.5	8.6	9.5						11.5
28.....	3.2	3.8	9.1	8.6	7.0	8.8						16.7	28.....	6.0	6.5	10.0	6.5	8.3	9.0						7.2
29.....	3.2	3.7	10.3	8.7	7.6	9.8						16.6	29.....	5.8	5.7	10.6	11.0	8.0	8.5						7.0
30.....	3.2	-----	11.8	8.9	7.9	10.5						14.8	30.....	6.0	-----	12.0	14.0	9.0	8.0						7.0
31.....	5.2	-----	12.7	-----	8.7	-----						9.0	31.....	6.5	-----	12.5	-----	10.0	-----						7.0
Mean.....	6.8	9.1	7.6	10.3	7.1	10.3						6.3	Mean.....	11.6	9.1	9.8	9.8	9.0	10.4						4.8
WABASH RIVER—MOUNT CARMEL, ILL.													WABASH—WHITE RIVER—EAST FORK—SEYMOUR, IND.												
[Flood stage, 16 feet]													[Flood stage, 10 feet]												
1.....	19.0	8.0	6.1	16.1	14.0	12.0	11.6	2.7	4.0	2.2	1.0	1.0	1.....	3.3	3.5	0.6	11.0	4.2	3.2						0.0
2.....	18.1	10.3	6.3	17.0	15.0	11.8	11.4	2.7	3.9	2.1	1.0	1.0	2.....	2.2	2.9	0.8	6.2	2.5	3.0						0.0
3.....	16.6	12.5	6.8	18.1	15.4	11.1	11.8	3.1	4.3	2.2	1.0	1.1	3.....	1.8	2.0	0.9	4.0	1.5	1.0						0.0
4.....	14.9	13.6	7.3	19.2	15.3	10.0	11.8	3.3	4.5	2.4	1.0	1.2	4.....	1.7	1.8	1.0	2.8	1.2	1.5						0.0
5.....	13.0	14.7	8.1	20.5	14.5	9.0	11.0	3.3	4.5	2.2	1.0	1.2	5.....	1.5	2.7	4.5	2.5	1.1	1.3						0.0
6.....	11.2	16.0	9.3	21.5	12.9	9.6	9.6	3.1	5.7	2.0	1.0	1.3	6.....	1.5	6.0	5.5	2.0	1.0	1.5						0.0
7.....	9.6	16.6	10.2	21.6	10.9	11.4	8.0	2.8	5.5	1.9	1.0	1.5	7.....	1.2	4.9	6.0	1.7	0.9	2.0						0.1
8.....	7.7	17.0	10.8	21.0	9.5	13.1	7.0	2.6	5.3	1.9	1.0	1.6	8.....	1.0	1.9	4.5	1.5	0.8	2.5						0.1
9.....	6.4	17.5	11.6	19.5	8.6	14.2	6.3	2.5	4.4	1.9	1.0	2.4	9.....	0.9	1.6	2.5	1.3	1.0	4.0						1.5
10.....	6.5	17.8	12.3	17.7	8.0	14.7	5.8	2.3	4.0	1.7	1.0	4.0	10.....	0.9	1.2	2.0	1.2	1.3	4.0						2.0
11.....	9.1	17.6	12.3	15.7	8.0	15.2	5.5	2.8	3.4	1.7	1.0	5.0	11.....	6.5	1.1	1.8	1.0	1.5	4.0						2.3
12.....	12.5	17.8	11.4	12.7	8.0	15.5	5.3	4.4	3.0	1.7	1.0	5.8	12.....	9.8	1.0	1.7	0.9	1.8	3.0						1.5
13.....	14.0	15.8	10.8	10.3	8.3	15.8	5.4	4.6	3.1	1.7	1.0	5.8	13.....	8.2	0.8	2.0	0.8	1.7	2.5						1.0
14.....	14.7	14.1	10.3	8.8	8.8	15.8	5.0	4.3	2.6	1.6	1.0	5.5	14.....	7.1	0.8	2.2	0.7	1.6	2.2						0.9
15.....	15.2	11.5	10.6	8.2	9.5	16.0	4.8	4.0	2.5	1.6	1.0	5.1	15.....	4.2	0.7	3.0	0.6	1.5	1.5						0.8
16.....	15.5	9.5	10.9	8.2	9.3	16.1	4.5	3.3	2.3	1.5	2.2	4.4	16.....	2.6	0.7	2.8	0.6	1.4	1.5						0.7
17.....	16.1	9.0	11.1	7.7	8.5	16.1	4.2	3.0	2.1	1.5	2.0	4.0	17.....	5.0	0.6	2.6	0.5	1.0	2.0						0.7
18.....	16.2	9.0	11.5	7.3	8.0	16.0	4.1	2.8	2.3	1.5	1.9	3.5	18.....	4.5	1.0	2.0	0.5	0.9	1.5						0.6
19.....	15.2	10.1	11.3	7.6	7.8	15.2	4.0	2.6	2.0	1.5	1.7	3.5	19.....	3.2	0.9	1.8	0.6	0.8	1.3						1.0
20.....	(*)	10.8	10.9	8.0	6.7	14.2	3.8	2.4	2.2	1.5	1.4	7.1	20.....	2.0	2.5	1.6	0.7	1.1	1.0		3.0	0.0			3.3
21.....	12.7	11.2	10.0	7.7	7.0	12.4	3.5	2.2	2.3	1.4	1.4	8.9	21.....	1.8	1.9	2.0	0.9	1.5	0.9						4.0
22.....	10.8	10.6	9.1	7.5	7.3	10.5	3.8	3.2	2.5	1.4	1.4	11.3	22.....	1.5	1.0	4.0	0.9	1.3	1.0						3.8
23.....	9.2	9.5	9.1	7.1	7.1	9.0	3.5	5.4	2.8	1.4	1.4	12.6	23.....	1.0	0.9	3.8	0.8	1.0	3.0						3.0
24.....	7.7	8.9	9.5	6.6	7.1	10.0	3.3	6.3	3.4	1.3	1.0	13.8	24.....	0.9	0.8	3.6									

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, Chief

DAILY RIVER STAGES
AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE UNITED STATES

VOLUME XXIII
FOR THE YEAR 1925

REFERENCE
DO NOT CIRCULATE

BY
H. C. FRANKENFIELD
SENIOR METEOROLOGIST

Community Affairs File



INTRODUCTION

This volume, containing the daily river stages for 1925, constitutes the twenty-third of a series of "Daily River Stages on the Principal Rivers of the United States," the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
 II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
 III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
 Daily Stages at River Gage Stations on the Principal Rivers of the United States.
 IV. 1890 to 1892.
 V. 1893 to 1895.
 VI. 1896 to 1899.
 VII. 1900 to 1904.
 VIII. 1905 and 1906.
 IX. 1907 and 1908.
 X. 1909 and 1910.
 XI. 1911 and 1912.
 XII. 1913 and 1914.
 XIII. 1915.
 XIV. 1916.
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 XVI. 1918.
 XVII. 1919.
 XVIII. 1920.
 XIX. 1921.
 XX. 1922.
 XXI. 1923.
 XXII. 1924.

Volumes I to XV are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

In order that all readings for a given station may be comparable, a table of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This table immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following table:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.....	Hudson River system.
Atlanta, Ga.....	Apalachicola River system.
Augusta, Ga.....	Savannah River.
Binghamton, N. Y.....	Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.....	Missouri River at and above Bismarck, N. Dak.
Cairo, Ill. ¹	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.....	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio ¹	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River; the Little Miami, and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky River.
Columbia, S. C. ²	Santee River system.
Columbus, Ohio.....	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.....	Merrimac River.
Dallas, Tex.....	Trinity River above Long Lake, Tex.
Davenport, Iowa ¹	Mississippi River from below Dubuque to Muscatine, Iowa.
Dayton, Ohio.....	Miami River.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Denver, Colo.....	Colorado River, except the Gila River; Arkansas River in the State of Colorado, Pecos Grande above El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.....	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids.
Evansville, Ind. ¹	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.....	Arkansas River from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River.
Fort Wayne, Ind.....	Maumee River.
Fresno, Calif.....	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.....	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ²	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines River east of Des Moines, Iowa.
Harrisburg, Pa.....	Susquehanna River, except at and above Binghamton, N. Y.
Hartford, Conn.....	Connecticut River.
Houston, Tex.....	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.....	White River.
Kansas City, Mo.....	Missouri River from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River at Knoxville, Tenn.; Holston and French Broad Rivers.
La Crosse, Wis. ²	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.....	Grand River from headwaters to and including Grand Ledge, Mich., Saginaw River system.
Little Rock, Ark.....	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Los Angeles, Calif.....	Los Angeles River.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Canadian River.
Macon, Ga.....	Altamaha River system.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River in Arkansas.
Meridian, Miss.....	Pearl and Pascagoula River systems.
Minneapolis, Minn. ²	Mississippi River at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee and Black Warrior Rivers.
Montgomery, Ala. ¹	Alabama River system.
Moorhead, Minn.....	Red River of the North.
Nashville, Tenn. ¹	Cumberland River.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.....	Canadian River east of boundary of New Mexico.
Omaha, Nebr.....	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River from mouth to Sioux City, Iowa.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., and Kanawha River.
Philadelphia, Pa.....	Delaware River system.
Phoenix, Ariz.....	Gila River.
Pittsburgh, Pa. ¹	Allegheny and Monongahela Rivers; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Oreg.....	Columbia River system.
Raleigh, N. C.....	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.....	James River.
Sacramento, Calif.....	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, the Eel, and Feather Rivers.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Illinois River; Missouri River east of Lexington, Mo., except the Osage River in Kansas; White, Black, and St. Francis Rivers in the State of Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas; Rio Grande from El Paso to mouth.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Terre Haute, Ind.....	Wabash River system, except the White River.
Topeka, Kans.....	Kansas River and Osage River in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.....	Potomac River.
Wausau, Wis.....	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.....	Arkansas River in the State of Kansas.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS

7

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Con.

(Stations taking occasional observations only printed in italics. Reference notes are at the end of this table)

Station	Established	River	Distance above mouth of river (miles)	Drainage area above station (square miles)	Flood stage (feet)	Highest stage (feet)	Date	Lowest stage (feet)	Date	Width of river at low water (feet)	Bankful stage (feet)	Width of river at bankful stage (feet)	Elevation of zero of gage above msl. (feet)
MISSISSIPPI DRAINAGE—continued													
Ohio Basin—Contd.													
Gnadenbutten, Ohio.	June 1, 1923	Tuscarawas	26	1,503	9	^A 19.5	Mar. 28, 1913.			240	13	480	811.8
Coshocton, Ohio.	Dec. 16, 1904	Tuscarawas	0	4,840	8	27.5	Mar. 26, 1913.	-1.1	Dec., 1904.	300	8	325	780.6
Uhrichsville, Ohio.	July 20, 1922	Stillwater Creek	6	367						100			
Walhonding, Ohio.	Oct. 15, 1913	Walhonding	14	1,480	8	26.0	Mar. 25, 1913.	-1.0	Dec. 1, 1924 *	75	8	335	811.1
Glenville, W. Va.	Sept. 10, 1900	Little Kanawha	103	385	23	32.9	Mar. 13, 1918.	-0.9	Nov. 10, 1908.	75	22	200	693.5
Creston, W. Va.	Sept. 10, 1900	Little Kanawha	48	1,347	20	32.0	Mar. 14, 1918.	-3.0	Nov. 4, 1906.	200	15	300	621.7
Athens, Ohio.	Feb. 16, 1916	Hocking	30	944	17	26.7	Jan., 1907.	2.4	Aug. 19, 1924 *	107	17	137	615.6
Ivanhoe, Va.	Oct. 15, 1916	Kanawha-New	310	1,300	15	35.4	July 16, 1916.	0.0	Aug. 1, 1917 *	280	17	800	1,941.9
Radford, Va.	Jan. 26, 1895	Kanawha-New	250	2,720	14	34.0	Sept. 13, 1878.	-2.0	Nov. 3, 1904 *	580	14	650	1,713.7
Narrows, Va.	Mar. 7, 1914	Kanawha-New	206	3,665	20	^A 33.1	Sept. 13, 1878.	1.5	Aug. 29, 1917.	500	14	700	1,518.4
Hinton, W. Va.	June 4, 1887	Kanawha-New	156	6,160	14	20.2	Sept. 13, 1878.	0.5	(*)	600	14	700	1,365.2
Kanawha Falls, W. Va.	Jan. 1, 1914	Kanawha	95	8,370	25	37.8	Sept. 14, 1878.	-0.9	Oct. 29, 1921.	650	25	1,040	618.7
Charleston, W. Va.	June 4, 1887	Kanawha	58	10,490	30	46.9	Sept. 29, 1861.	-0.1	Sept. 15, 1881.	600	30	700	554.5
Renick, W. Va.	Dec. 1, 1915	Greenbrier	74	680	17	21.6	—, 1889.	0.0	Aug. 30, 1917 *	290	17	330	1,853.4
Camden-on-Gauley, W. Va.	Dec. 5, 1901	Gauley	71	236	20	21.7	Dec. 15, 1901.	-1.8	(*)	160	20	215	2,005.7
Gassaway, W. Va.	Apr. 1, 1918	Elk	95	578	24	44.0	Mar. 13, 1918.	1.0	Aug. 24, 1911.	160	24	380	796.3
Clay, W. Va.	Dec. 1, 1915	Elk	51	1,010	18	32.4	Mar. 14, 1918.	0.1	Sept. 11, 1925 *	190	18	270	676.6
Sissonville, W. Va.	Nov. 1, 1916	Pocataligo	25	238		33.0	June 27, 1910.	1.0	Sept. 7, 1913.		30		^A 594.0
Logan, W. Va.	Nov. 1, 1915	Guyandotte	79	890	20	27.0	Jan. 28, 1918.	0.0	Oct. 10, 1923 *	135	20	240	^A 638.4
Wayne, W. Va.	Dec. 16, 1924	Twelve Pole Creek	31	291	25	^A 25.0	(*)	1.0	Oct. 5, 1919.	67	25	130	604.7
Lock No. 3, Louisa, Ky.	Nov. 1, 1912	Big Sandy	27	3,766	50	48.4	Apr. 3, 1908.	0.7	Sept. 25, 1887 *	200	50	450	516.8
Pikeville, Ky.	June 1, 1907	Big Sandy, Levisa Fork.	88	1,202	35	49.0	Jan. 28, 1918.	0.0	July —, 1898 *	222	40	394	635.5
Kermit, W. Va.	Feb. 1, 1925	Big Sandy, Tug Fork.	38	1,240	38	41.7	July —, 1875.	^A 0.0	Oct. 3, 1908.	150	53	340	574.8
Williamson, W. Va.	Nov. 1, 1901	Big Sandy, Tug Fork.	57	868	38	38.1	Jan. 29, 1918.	-0.8	Oct. 2, 1908 *	200	40	360	620.6
Larue, Ohio.	Mar. 16, 1916	Scioto	104	255	11	17.8	Mar. 26, 1913.	2.0	July 11, 1919 *	85	9	120	910.2
Prospect, Ohio.	Nov. 16, 1904	Scioto	147	554	10	21.1	Mar. 26, 1913.	0.2	Oct. 2, 1910.	150	8	150	891.7
Bellpoint, Ohio.	June 1, 1914	Scioto	134	770	9	20.9	Mar. 25, 1913.	1.2	Aug. 22, 1921 *	200	6	273	840.0
Dublin, Ohio.	Apr. 1, 1916	Scioto	123	1,020	8	15.5	Mar. 26, 1913.	^A -2.6	Dec. 5, 1924 *	280	6	370	758.0
Columbus, Ohio.	July 1, 1897	Scioto	110	1,610	22	^A 22.9	Mar. 25, 1913.	-0.8	July 27, 1923.	522	24	578	700.0
Circleville, Ohio.	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913.	-2.2	Aug. 17, 1925 *	425	7	507	647.0
Chillicothe, Ohio.	June 5, 1907	Scioto	58	3,850	16	39.8	Mar. 26, 1913.	1.0	Sept. 27, 1916 *	200	15	300	594.0
Delaware, Ohio.	June 16, 1910	Olentangy	25	415	9	25.5	Mar. 25, 1913.	-0.5	Aug. 31, 1921 *	180	9	253	848.6
Kings Mills, Ohio.	July 1, 1912	Little Miami	25	793	17	33.7	Mar. 26, 1913.	^A 0.5	(*)	175	17	320	587.3
Farmers, Ky.	Oct. 5, 1904	Licking	172	768	25	31.1	Feb. 9, 1918.	^A 0.5	(*)	135	22	314	635.7
Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	42.8	Aug. 2, 1854.	0.0	Sept. 12, 1887 *	252	26	300	512.2
Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork.	46	648	20	35.0	Feb. 6, 1884.	0.0	(*)	185	20	300	683.8
Sidney, Ohio.	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913.	0.1	Sept. 1, 1924 *	110	12	260	924.7
Piqua, Ohio.	Nov. 16, 1904	Miami	119	850	17	29.1	Mar. 25, 1913.	1.2	Dec. 16, 1922 *	150	17	350	844.0
Tippecanoe City, Ohio.	July 1, 1923	Miami	102	1,016	25					100	25	250	788.8
Dayton, Ohio.	Oct. 1, 1892	Miami	83	2,525	21	31.7	Mar. 25, 1913.	-0.1	Sept. 5, 1925 *	350	21	600	721.0
Miamisburg, Ohio.	July 1, 1923	Miami	78	2,720	22	33.6	Mar. 26, 1913.	0.0	Aug. 31, 1924 *	350		665	678.4
Franklin, Ohio.	July 1, 1923	Miami	73	2,785	16	23.0	Mar. 26, 1913.	0.2	Sept. 6, 1925 *	280		365	658.4
Middletown, Ohio.	July 1, 1923	Miami	63	3,162	15	20.0	Mar. 26, 1913.	0.0	Oct. 8, 1924 *	250	15	300	624.6
Hamilton, Ohio.	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913.	-1.4	Sept. 10, 1925 *	400	17	500	560.0
Springfield, Ohio.	Dec. 1, 1913	Mad.	25	477	11	16.9	Mar. 25, 1913.	1.2	Jan. 31, 1924.	110	11	300	882.0
Pleasant Hill, Ohio.	Mar. 1, 1922	Stillwater	22	502	13	17.5	Mar. 25, 1913.	0.9	Sept. 4, 1925 *	200	13	250	846.6
Brookville, Ind.	Oct. 15, 1924	Whitewater	27	1,180	20	^A 43.5	Mar. 26, 1913.	0.8	Sept. 18, 1919.	170	20	450	595.7
Hazard, Ky.	Mar. 1, 1925	Kentucky, N. Fork	351	450	20	38.5	—, 1912.			200	20	320	838.0
Beattyville, Ky.	May 1, 1902	Kentucky	255	1,654	30	46.3	Feb. 23, 1890.	-2.6	June 6, 1916 *	400	30	800	628.2
Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.6	Mar. 27, 1913 *	4.7	Nov. 24, 1912 *	350	25	450	505.4
Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	Feb. —, 1878.	0.4	(*)	400	30	500	464.8
Munfordville, Ky.	July 16, 1924	Green	^A 226	1,790	28	54.0	(*)	2.2	Sept. 2, 1921.	290	28	350	
Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	Jan. 10, 1913.	6.1	Sept. 10, 1919 *	290	40	520	402.8
Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913 *	5.0	Sept. 17, 1902 *	450	44	600	373.6
Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,600	34	47.5	Jan. 19, 1913 *	3.7	July 28, 1902.	700	40	1,000	343.5
Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	30.5	Jan. 3, 1919.			112	20	250	
Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	11	20.0	Mar. 26, 1913.	0.7	June 23, 1913 *	190	10	200	790.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	6,200	11	32.9	Mar. 26, 1913.	0.3	July 9, 1895 *	450	11	500	501.1
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	31.3	Mar. 27, 1913.	-2.0	Feb. 6, 1892.	540	16	662	447.3
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 29, 1913.	^A -1.0	Dec. 1, 1922 *		14	782	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28,590	16	31.0	Mar. 30, 1913.	-0.2	Nov. 7, 1895 *	742	19	1,680	372.1
Rochester, Ind.	Sept. 1, 1925	Tippecanoe	116	650	6					100	6		
Norway, Ind.	Sept. 1, 1925	Tippecanoe	25	1,800	6						6		639.0
Decker, Ind.	Dec. 1, 1913	White	18	10,717	18	28.8	Mar. 29, 1913	0.0	Nov. 23, 1913.	600	18	675	387.4
Seymour, Ind.	Apr. 17, 1923	White, E. Fork	118	2,140	10	18.1	Mar. 26, 1913.	^A 0.0	(*)	300	10	412	555.8
Williams, Ind.	Dec. 1, 1920	White, E. Fork	62	4,672	10					290	10		472.6
Shoals, Ind.	May 1, 1908	White, E. Fork	42	4,900	20	42.2	Mar. 26, 1913.	1.7	Dec. 7, 1914 *	300	25	450	443.0
Anderson, Ind.	Dec. 1, 1910	White, W. Fork	185	503	12	22.1	Mar. 25, 1913.	0.6	(*)	128	8	400	827.4
Noblesville, Ind.	Dec. 1, 1913	White, W. Fork	149	900	14	23.8	Mar. 25, 1913.	3.0	Aug. 29, 1914.	228	14	1,046	787.0
Indianapolis, Ind.	Dec. 1, 1911	White, W. Fork	124	1,610	18	29.6	Mar. 26, 1913.	1.6	Aug. 12, 1911 *	260	12	400	670.7

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1925	January	February	March	April	May	June	July	August	September	October	November	December	1925	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—BLUFFTON, IND.													WABASH RIVER—TERRE HAUTE, IND.												
[Flood stage, 11 feet]													[Flood stage, 16 feet]												
1	1.8	2.1	2.3	1.7	1.7	1.2						3.0	1	(*)	2.8	8.9	6.5	2.7	0.7	0.9	0.5	-0.4	1.1	1.3	3.3
2	1.7	2.0	2.0	1.6	1.7	1.2						2.2	2	(*)	2.4	7.0	6.1	2.7	0.7	0.7	0.5	-0.4	1.5	1.2	3.0
3	1.6	2.0	2.0	1.6	1.6	1.1						2.2	3	4.3	3.6	5.6	5.7	2.5	0.6	0.5	0.5	-0.5	2.0	1.0	3.0
4	1.6	2.0	1.7	1.6	1.6	1.1						2.2	4	4.2	2.8	4.8	5.3	2.4	0.5	0.5	0.4	-0.5	4.2	1.0	3.2
5	1.6	1.8	1.7	1.6	1.5	1.1						4.4	5	3.8	3.2	4.7	4.8	2.2	0.5	0.4	0.3	-0.5	3.5	0.8	4.0
6	1.6	2.2	1.8	1.5	1.5	1.0	(*)					5.0	6	3.7	2.8	4.5	4.6	2.0	0.4	0.3	0.2	-0.5	2.2	0.7	5.5
7	1.5	2.9	1.9	1.5	1.4	1.0						4.5	7	3.5	3.7	4.2	4.4	2.0	0.2	1.9	0.2	-0.5	1.4	0.8	5.3
8	1.5	4.2	2.2	1.5	1.4	1.1					6.0	2.9	8	3.3	4.9	4.0	4.0	2.0	0.2	1.8	0.2	-0.6	1.4	4.3	5.5
9	1.5	4.1	2.3	1.5	1.4	1.1						2.6	9	3.3	7.0	4.0	3.8	1.9	0.0	2.0	0.2	-0.5	1.2	6.5	5.4
10	1.4	4.0	2.5	1.5	1.3	1.1						2.5	10	3.2	8.7	4.1	3.7	1.8	0.0	1.9	0.1	-0.2	1.0	7.0	4.8
11	1.4	3.7	3.3	1.5	1.3	1.1						2.5	11	3.0	9.2	4.6	4.1	1.7	0.0	1.8	0.1	0.2	0.8	9.0	4.0
12	1.4	3.1	5.2	1.6	1.3	1.0						2.3	12	3.0	9.2	5.2	4.8	1.7	0.0	1.8	0.3	0.2	0.7	9.0	4.5
13	1.4	2.9	5.6	1.5	1.3	1.1		2.4	1.2		8.8	2.1	13	2.7	8.2	5.8	4.6	1.6	0.0	1.8	1.0	0.2	0.9	10.9	4.1
14	1.4	2.7	10.7	1.6	1.3	1.5			1.8			2.2	14	2.6	7.2	14.2	4.2	1.5	0.2	3.6	1.5	1.5	0.9	10.7	3.8
15	1.4	2.6	8.6	1.5	1.3	1.3						2.0	15	2.0	6.1	17.5	3.9	1.5	0.0	2.7	0.5	3.0	0.8	10.0	3.4
16	1.3	2.4	8.6	1.5	1.3	2.4					9.9	2.0	16	1.7	5.4	18.3	3.8	1.5	0.0	2.7	0.5	2.7	0.7	13.0	3.1
17	1.3	2.3	7.5	1.5	1.3	1.9						1.9	17	2.0	5.0	18.5	3.7	1.4	1.0	2.4	0.4	2.5	0.6	13.7	2.8
18	1.4	2.2	4.9	1.5	1.3	2.0						1.5	18	2.2	4.4	20.2	3.6	1.3	1.8	1.8	0.5	2.1	0.7	13.6	2.4
19	1.4	2.1	4.4	1.5	1.2	1.8						1.7	19	2.0	4.2	20.8	3.5	1.3	3.5	1.4	0.3	1.8	0.7	13.3	2.1
20	1.4	2.0	3.6	1.5	1.2	1.7						1.8	20	2.0	4.1	20.5	3.3	1.3	2.8	1.4	0.4	1.6	0.7	12.4	1.9
21	1.4	1.9	3.2	1.5	1.2	1.7						1.8	21	2.0	4.0	19.5	3.0	1.3	2.0	1.6	0.7	1.6	0.7	10.4	1.4
22	1.3	3.8	2.7	1.5	1.2	1.6						1.7	22	1.8	4.0	18.9	3.0	1.5	1.6	3.3	0.5	1.3	0.7	8.4	1.2
23	1.3	5.6	2.6	3.5	1.2	1.2						1.5	23	1.8	4.6	18.3	3.0	1.3	1.4	1.4	0.3	1.0	0.7	6.8	1.0
24	1.3	6.2	2.5	4.4	1.2	1.2						1.5	24	1.8	7.7	17.5	3.0	1.3	1.5	0.8	0.2	1.0	0.7	5.9	0.8
25	1.4	5.9	2.5	2.9	1.2	1.1						1.5	25	1.8	10.4	16.4	3.0	1.0	1.0	0.6	0.2	0.7	0.8	5.0	0.6
26	2.2	4.8	2.4	2.4	1.4	1.1						1.7	26	1.6	11.7	14.9	3.6	1.0	1.0	0.5	0.1	0.7	0.8	4.8	0.5
27	3.7	3.0	2.1	1.9	1.3	1.3						1.5	27	1.4	12.1	12.6	4.4	1.0	2.0	2.0	0.0	0.8	0.8	4.2	1.0
28	3.6	2.5	2.0	1.8	1.4	1.9			2.8			1.5	28	1.4	11.4	10.7	3.8	0.8	1.4	1.0	-0.2	1.0	1.2	4.0	(*)
29	3.0		1.9	1.7	1.3	1.9						1.5	29	1.4		9.3	3.0	0.8	1.0	0.8	-0.2	1.0	1.0	3.8	(*)
30	2.3		1.9	1.7	1.3	1.6						1.5	30	1.4		8.0	2.9	0.8	1.0	0.6	-0.2	1.0	1.1	3.5	(*)
31	2.0		1.8		1.3							1.5	31	1.4		7.0		0.7		0.6	-0.4		1.3		(*)
Mean	1.7	3.1	3.5	1.8	1.4	1.4						2.3	Mean	2.4	6.1	11.3	4.0	1.6	0.9	1.5	0.3	0.7	1.2	6.0	3.0
WABASH RIVER—LAFAYETTE, IND.													WABASH RIVER—VINCENNES, IND.												
[Flood stage, 11 feet]													[Flood stage, 14 feet]												
1	(*)	2.9	5.5	4.8	2.8	1.5						1.3	1	6.5	1.8	9.4	7.6	2.7	1.5						3.5
2	5.6	2.9	3.9	4.3	2.5	1.5						3.0	2	4.3	1.7	7.8	6.9	2.7	1.4						3.7
3	4.7	2.9	3.7	3.9	2.4	1.4						2.8	3	4.0	2.6	7.0	6.0	2.7	1.4						3.3
4	4.7	2.9	3.7	3.9	2.2	1.4						2.8	4	4.0	2.7	5.7	5.7	2.7	1.4						2.8
5	4.3	2.9	3.5	3.6	2.4	1.3						3.1	5	3.9	2.4	4.8	5.4	2.6	1.3						3.6
6	4.3	3.1	3.2	3.0	2.4	1.3						3.9	6	3.8	2.6	4.2	5.2	2.6	1.2	(*)					4.8
7	4.3	3.2	3.1	3.0	2.3	1.3						5.7	7	3.8	3.1	4.0	4.5	2.6	1.2						4.9
8	4.3	5.0	3.1	3.0	2.1	1.4						5.4	8	3.8	3.3	4.0	4.3	2.5	1.2						5.0
9	3.5	6.9	3.1	2.9	2.1	1.4						8.3	9	3.7	3.4	4.0	4.0	2.5	1.0						4.8
10	3.5	7.3	3.9	3.2	2.0	1.2	2.5					9.3	10	3.5	4.5	3.8	3.9	2.4	1.0						4.4
11	3.0	7.0	4.2	3.2	1.9	1.2			1.4			3.2	11	3.2	6.2	3.8	3.8	2.4	1.0						4.2
12	3.0	6.2	5.9	3.2	1.9	1.2						3.6	12	3.2	7.2	4.1	3.7	2.4	1.0						4.0
13	2.7	5.2	7.1	2.9	1.9	1.2			2.2			3.0	13	2.9	7.5	4.6	4.1	2.4	1.0						3.9
14	2.7	4.6	15.4	3.1	2.0	1.3						2.6	14	2.9	7.2	4.8	4.2	2.3	1.0						3.9
15	2.5	4.2	21.3	3.1	2.0	1.3			2.3			2.6	15	2.8	6.4	9.3	3.9	2.3	1.0						3.6
16	2.5	3.3	21.7	3.0	2.0	1.3						2.7	16	2.8	6.0	11.0	3.7	2.3	1.0						3.3
17	2.5	2.9	19.4	2.8	2.1	1.3						2.8	17	2.8	5.4	12.2	3.5	2.3	1.0						3.1
18	2.5	3.5	15.9	2.8	1.8	2.9						2.9	18	2.7	4.8	12.7	3.4	2.3	1.3						3.0
19	2.3	3.5	15.4	2.7	1.7	2.4						2.3	19	2.7	4.4	15.5	3.3	2.1	1.5						2.8
20	2.3	3.3	17.7	2.5	1.7	2.2						3.4	20	2.5	4.2	17.4	3.3	2.0	2.5						2.8
21	2.3	3.3	16.5	2.5	1.7	2.0						2.7	21	2.4	4.0	18.7	3.1	2.0	2.8						2.8
22	2.2	4.1	13.1	2.7	1.7	1.7						2.8	22	2.4	3.8	19.5	3.0	2.0	3.0						2.6
23	2.2	8.2	10.3	2.9	1.6	1.5						2.5	23	2.2	3.8	19.5	3.0	1.8	2.5						2.5
24	2.0	12.0	8.4	3.3	1.6	1.5						2.5	24	2.2	4.5	19.1	2.9	1.8	2.4						2.4
25	2.0	13.1	7.6	5.3	1.6	1.5						3.2	25	2.2	5.6	18.6	2.9	1.8	2.0						2.3
26	2.0	11.2	6.9	3.9	1.6	1.5						3.5	26	2.1	7.5	17.7	2.8	1.8	2.0						2.2
27	2.5	8.5	6.4	3.1	1.6	1.4						1.9	27	2.1	8.8	17.2	2.8	1.7	2.0						2.2
28	2.5	6.2		3.1	1.6	1.4			1																

Indexes to River Stations—Continued

Name	River	Miscellaneous data	Gage readings	Name	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Marinette, Ariz.	Agua Fria	12		Plattsmouth, Nebr.	Missouri	9	219
Marked Tree, Ark.	St. Francis	9	216	Pleasant Hill, Ohio	Stillwater	7	186
Mars Bluff, S. C.	Feedee	4	139	Point Pleasant, W. Va.	Ohio	6	163
Marshall, N. C.	French Broad	8	198	Poplar Bluff, Mo.	Black	11	236
Marystown, Calif.	Yuba	13	263	Portage, Wis.	Wisconsin	9	212
Mauch Chunk, Pa.	Lehigh	4	129	Port Jervis, N. Y.	Delaware	3	128
Mayos Bar, Ga.	Coosa	5	149	Portland, Mich.	Grand	6	160
Mechanicville, N. Y.	Hudson	3	125	Portland, Oreg.	Willamette	13	271
Mechama, Oreg.	North Santiam	13	272	Portsmouth, Ohio	Ohio	6	169
Melones, Calif.	Stanislaus	13	265	Prarie du Chien, Wis.	Mississippi	8	203
Melville, La.	Atchafalaya	11	243	Prospect, Ohio	Scioto	7	181
Memphis, Tenn.	Mississippi	8	208	Fueblo, Colo.	Arkansas	10	227
Mendota, Va.	Holston, North Fork	8	199	Fueblo, Colo.	Fontaine	10	
Mentor, Kans.	Smoky Hill	10	223	Quenemo, Kans.	Osgo	10	
Merced Falls, Calif.	Merced	13		Quincy, Ill.	Mississippi	8	205
Merrill, Iowa	Floyd	9	221	Radford, Va.	Kanawha-New	10	178
Merrill, Miss.	Pascagoula	5	152	Radston, Okla.	Arkansas	10	228
Merrill, Wis.	Wisconsin	9	211	Randolph, Va.	Big Blue	10	
Miamisburg, Ohio	Miami	7	185	Reading, Pa.	Ronoke	4	135
Middletown, Ohio	Tittabawassee	5	157	Reads, Minn.	Schuylkill	4	129
Milledgeville, Ga.	Oconee	4	144	Red Bluff, Calif.	Mississippi	8	202
Milstead, Ala.	Tallapoosa	5	149	Red Wing, Minn.	Sacramento	12	261
Mission, Tex.	Rio Grande	12	254	Ree, N. Dak.	Mississippi	8	202
Monroe, N. C.	Haw	4	138	Renick, W. Va.	Missouri	9	
Monroe, La.	Ouachita	11	242	Reno Junction, Okla.	Greenbrier	7	
Monroe, Oreg.	Long Tom	13		Renovo, Pa.	North Canadian	11	233
Monroeville, Calif.	Sacramento	12	261		Susquehanna, West Branch	4	132
Montezuma, Ga.	Flint	4	146	Resaca, Ga.	Oostanaula	5	150
Montgomery, Ala.	Alabama	5	148	Rhineland, Wis.	Wisconsin	9	210
Monticello, Miss.	Pearl	5	153	Richmond, Va.	James	4	135
Montpelier, Ohio	St. Joseph	5		Rimini, S. C.	Santee	4	140
Moorhead, Minn.	Red River of the North	11	244	Ringo Crossing, Tex.	Sulphur	11	241
Morgan City, La.	Atchafalaya	11	243	Rio Grande City, Tex.	Rio Grande	12	254
Morris, Ill.	Illinois	9	214	Rio Vista, Calif.	Sacramento	12	262
Mount Carmel, Ill.	Wabash	7	190	River Junction, Fla.	Apalachicola	4	146
Mount Holly, N. C.	Catawba	4	140	Riverside, Tex.	Trinity	11	247
Mount Pleasant, Mich.	Chippewa	5	158	Riverton, Ala.	Tennessee	8	197
Mount Vernon, Ind.	Ohio	6	173	Riverton, Va.	Shenandoah	4	134
Munfordville, Ky.	Green	7	187	Rochester, Ind.	Tippecanoe	7	190
Muscatine, Iowa	Mississippi	8	205	Rockland, Tex.	Neches	11	245
Napoleon, Ohio	Maumee	5		Rockwood, Tenn.	Tennessee	8	195
Narrows, Va.	Kanawha-New	7	178	Rocky Mount, N. C.	Tar	4	136
Nashville, Tenn.	Cumberland	8	194	Rogersville, Tenn.	Holston	8	199
Natchez, Miss.	Mississippi	9	209	Rome, Ga.	Oostanaula	5	150
Neosho Rapids, Kans.	Neosho	10	230	Rosenberg, Tex.	Brazos	12	249
Neuse, N. C.	Neuse	4	137	Rowlesburg, W. Va.	Cheat	6	164
New Berlin, N. Y.	Unadilla	4	131	Sacramento, Calif.	Sacramento	12	262
New Braunfels, Tex.	Guadalupe	12	251	Saginaw, Mich.	Saginaw	5	156
New Madrid, Mo.	Mississippi	8	207	Saginaw, Oreg.	Willamette, Coast Fork	13	271
New Orleans, La.	Mississippi	9	210	St. Charles, Mo.	Missouri	9	221
Newport, Ark.	White	11	234	St. John, Calif.	Stony Creek	13	263
Newport, Tenn.	Big Pigeon	8	199	St. Joseph, Mo.	Missouri	9	219
Newport, Wash.	Pend O'Reille	13	269	St. Louis, Mo.	Mississippi	8	207
New River, Tenn.	New	8	194	St. Marys, W. Va.	Ohio	6	166
Nicolaus, Calif.	Feather	13	263	St. Paul, Minn.	Mississippi	8	202
Niles, Kans.	Solomon	10		Salem, Oreg.	Willamette	13	270
Ninock, La.	Lake Bisteneau	11		Salida, Colo.	Arkansas	10	
Noblesville, Ind.	White, West Fork	7	192	Saltair, Utah	Great Salt Lake	12	
Norcross, Ga.	Chattahoochee	5	147	Saltsburg, Pa.	Kiskiminetas	6	163
North Platte, Nebr.	North Platte	9	222	San Antonio, Tex.	San Antonio	12	252
North Platte, Nebr.	South Platte	10	222	San Benito, Tex.	Rio Grande	12	255
Northville, N. Y.	Sacandaga	3	127	San Marcial, N. Mex.	Rio Grande	12	253
Norway, Ind.	Tippecanoe	7	190	Santa Rosa, N. Mex.	Pecos	12	
Ogden, Kans.	Kansas	10		Sapinero, Colo.	Gunnison	12	258
Okay, Okla.	Verdigris	10	232	Savannah, Tenn.	Tennessee	8	197
Oklahoma City, Okla.	North Canadian	11		Scandia, Kans.	Republican	10	
Omaha, Nebr.	Missouri	9	219	Schenectady, N. Y.	Mohawk	3	127
Oneonta, N. Y.	Susquehanna	4		Schoharie Junction, N. Y.	Schoharie	3	128
Orange, Tex.	Sabine	11	245	Sedgwick, Kans.	Little Arkansas	10	
Oregon City, Oreg.	Willamette	13	270	Selma, Ala.	Alabama	5	148
Oroville, Calif.	Feather	12	262	Seymour, Ind.	White, East Fork	7	191
Oseola, Mo.	Osa	10	225	Sharon, Pa.	Shenango	6	175
Oswego, Kans.	Neosho	10	230	Shawneetown, Ill.	Ohio	6	174
Ottawa, Kans.	Osa	10		Sherburne, N. Y.	Chenango	4	131
Ottumwa, Iowa	Des Moines	9	213	Shields, Mich.	Tittabawassee	5	157
Overton, Nebr.	Platte	9	221	Shoals, Ind.	White, East Fork	7	191
Owosso, Mich.	Shiawassee	5	156	Shreveport, La.	Red	11	240
Ozark Beach, Mo.	White	11	234	Shubuta, Miss.	Chickasawhay	5	152
Pacific, Mo.	Meramec	0	216	Sidney, Ohio	Miami	7	184
Paducah, Ky.	Ohio	6	174	Simmesport, La.	Atchafalaya	11	
Paonia, Colo.	Gunnison, North Fork	12	258	Sioux City, Iowa	Missouri	9	218
Parker, Ariz.	Colorado	12	257	Slissonville, W. Va.	Pocataligo	7	
Parkersburg, W. Va.	Ohio	6	167	Smithfield, N. C.	Neuse	4	137
Parkers Landing, Pa.	Allegheny	5	162	Smithville, Tex.	Colorado	12	250
Patterson, Ark.	Catche	11	236	Solomon, Kans.	Smoky Hill	10	223
Pearl, Ill.	Illinois	9	215	Speers Ferry, Va.	Clinch	8	200
Pearl River, La.	West Pearl	5	154	Springbank, Ark.	Red	11	240
Pecos, Tex.	Pecos	12		Springfield, Ohio	Mad	7	186
Pelzer, S. C.	Saluda	4	142	State Bridge, Colo.	Colorado	12	
Pensacola, Okla.	Neosho	10		Steelville, Mo.	Meramec	9	215
Peoria, Ill.	Illinois	9	214	Stuyvesant, N. Y.	Hudson	3	126
Peru, Ill.	Illinois	9	214	Sunbury, Pa.	Susquehanna	4	131
Phillipsburg, N. J.	Delaware	3	128	Swan Lake, Miss.	Tallahatchie	11	238
Phoenix, Ariz.	Salt	12	260	Tarboro, N. C.	Tar	4	136
Piedra, Calif.	Kings	13	265	Tates Bluff, Ark.	Ouachita	11	
Pierre, S. Dak.	Missouri	9	218	Tazewell, Tenn.	Powell	8	201
Pikeville, Ky.	Big Sandy, Levisa Fork	7	180	Terre Haute, Ind.	Wabash	7	189
Pine Bluff, Ark.	Arkansas	10	229	Tescott, Kans.	Saline	10	
Piqua, Ohio	Miami	7	184	The Dalles, Oreg.	Columbia	13	268
Pittsburgh, Pa.	Ohio	6	165	Three Links, Oreg.	Clackamas	13	
				Three Rivers, Tex.	Nueces	12	252

W. B. No. 1030

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, Chief

DAILY RIVER STAGES
AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE UNITED STATES

VOLUME XXVII
FOR THE YEAR 1929

REFERENCE
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BY
MONTROSE W. HAYES
PRINCIPAL METEOROLOGIST

Community Affairs File



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INTRODUCTION

This volume, containing the daily river stages for 1929, is the twenty-seventh of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume X. 1909 and 1910.	Volume XVI. 1918.	Volume XXII. 1924.
V. 1893 to 1895.	XI. 1911 and 1912.	XVII. 1919.	XXIII. 1925.
VI. 1896 to 1899.	XII. 1913 and 1914.	XVIII. 1920.	XXIV. 1926.
VII. 1900 to 1904.	XIII. 1915.	XIX. 1921.	XXV. 1927.
VIII. 1905 and 1906.	XIV. 1916.	XX. 1922.	XXVI. 1928.
IX. 1907 and 1908.	XV. 1917.	XXI. 1923.	

Volumes XV to XXVII can be bought from the Superintendent of Documents, Washington, D. C.; Volumes I to XIV are out of print and can not be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In order that all readings for a given station may be comparable, a list of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This list immediately precedes the description of gages and bench marks.

The district centers and the drainage areas covered by each are given in the following tabulation:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.-----	Hudson River system.
Atlanta, Ga.-----	Apalachicola River system.
Augusta, Ga.-----	Savannah River.
Binghamton, N. Y.-----	Susquehanna River system at and above Binghamton, N. Y.
Bismarck, N. Dak.-----	Missouri River system at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below El Paso, Tex.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River; the Little Miami and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky River.
Columbia, S. C. ² -----	Santee River system.
Columbus, Ohio.-----	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.-----	Merrimac River.
Dallas, Tex.-----	Trinity River above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa River, but not including Keithsburg, Ill.
Dayton, Ohio.-----	Miami River system.
Denver, Colo.-----	Colorado River and tributaries except the Gila River; Arkansas River in the State of Colorado, Pec River, Rio Grande to El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.-----	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ² -----	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except the upper Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids, Wis.
Evansville, Ind. ¹ -----	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.-----	Arkansas and Neosho Rivers from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River; Verdigris River.
Fort Wayne, Ind.-----	Maumee River system.
Fresno, Calif.-----	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.-----	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ² -----	Mississippi River and tributaries from and including Keithsburg Ill., but not including the Iowa River to and including Louisiana, Mo.; Des Moines River east of Des Moines, Iowa.
Harrisburg, Pa.-----	Susquehanna River and tributaries except at and above Binghamton, N. Y.
Hartford, Conn.-----	Connecticut River system.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of floods.

Houston, Tex.....	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.....	Wabash River system.
Kansas City, Mo.....	Missouri from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn.
La Crosse, Wis. ²	Mississippi River and tributaries from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.....	Grand River from headwaters to and including Grand Ledge, Mich.; Saginaw River system.
Little Rock, Ark.....	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannelton, Ind.; Kentucky River.
Macon, Ga.....	Altamaha River system.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River in Arkansas.
Meridian, Miss.....	Pearl and Pascagoula River systems.
Minneapolis, Minn. ²	Mississippi River and tributaries at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee and Black Warrior Rivers.
Montgomery, Ala. ¹	Alabama River system.
Moorhead, Minn.....	Red River of the North, and tributaries.
Nashville, Tenn. ¹	Cumberland River system.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.....	Canadian River east of boundary of New Mexico.
Omaha, Nebr.....	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., excluding the Great Kanawha River.
Pensacola, Fla.....	Conecuh and Choctawhatchee River systems.
Philadelphia, Pa.....	Delaware River system.
Phoenix, Ariz.....	Gila River system.
Pittsburgh, Pa. ¹	Allegheny and Monongahela Rivers and tributaries; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Oreg.....	Columbia River system.
Raleigh, N. C.....	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.....	James River.
Sacramento, Calif.....	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, the Eel, and Los Angeles Rivers.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Missouri River east of Lexington, Mo., except the Osage River in Kansas; Illinois River; Meramac River; White, Black, and St. Francis Rivers in the State of Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Topeka, Kans.....	Kansas River; Neosho and Osage Rivers in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.....	Potomac River system.
Wausau, Wis.....	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.....	Arkansas River in the State of Kansas.

LIST OF MOST FREQUENT ABBREVIATIONS USED IN THIS PUBLICATION

B. M. Bench mark.
P. B. M. Permanent bench mark.
T. B. M. Temporary bench mark.
msl. Mean sea level.
mgl. Mean gulf level.
M. R. C. Mississippi River Commission.
U. S. E. United States Engineer Corps.

U. S. G. S. United States Geological Survey.
U. S. R. S. United States Reclamation Service.
U. S. W. B. United States Weather Bureau.
U. S. C. & G. S. United States Coast and Geodetic Survey.
W. & P. R. B. Water and Power Resources Board of Pennsylvania.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, bankful stage, and elevation of zero of gage above mean sea level—Continued

[Stations taking occasional observations only printed in italics. Reference notes are at the end of this table]

Station	Established	River	Distance above mouth of river	Drainage area above station	Flood stage	Highest stage	Date	Lowest	Date	Bankful stage	Elevation of zero of gage above msl.
MISSISSIPPI DRAINAGE—continued											
Ohio Basin—Continued											
Paducah, Ky.	May 1, 1873	Ohio	Miles 46.6	Sq. miles 202,700	Feet 43	Feet 54.3	Apr. 7, 1913	Feet -0.7	Oct. 30, 1895 ¹	Feet 39	Feet 286.3
Dam No. 52, Brookport, Ill.	Nov. 16, 1928	Ohio	42.1	202,737	43	54.1	Feb. 23, 1884	0.0	(15)	30	285.1
Dam No. 53, Grand Chain, Ill.	Jan. 1, 1929	Ohio	18.4	203,357	44	53.7	Apr. 8, 1913	0.0	(11)	38	276.6
Cairo, Ill.	June 1, 1871	Ohio	1.7	916,600	45	56.4	Apr. 20, 1927	-1.0	Dec. 24, 1871	42	270.4
Beaver Falls, Pa.	Apr. 5, 1908	Beaver	3	3,007	11	17.4	Mar. 27, 1913	0.6	(15)	15	791.2
Sharon, Pa.	Dec. 16, 1911	Shenango	28	609	9	18.6	Mar. 26, 1913	1.8	(15)	9	840.0
Zanesville, Ohio	June 4, 1887	Muskingum	76	6,474	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895 ¹	33	665.3
McConnellsville, Ohio	Jan. 1, 1911	Muskingum	48	7,410	22	49.1	Mar. 27, 1913	2.9	Aug. 17, 1910	21	635.0
Beverly, Ohio	Jan. 16, 1905	Muskingum	25	7,700	25	46.5	Mar. 28, 1913	2.6	Aug. 22, 1910	24	602.6
Marietta, Ohio	May 1, 1914	Muskingum	0.2	8,040	28	51.5	Mar. 29, 1913	8.1	Sept. 4, 1925 ¹	28	575.6
Dover, Ohio	Jan. 1, 1905	Tuscarawas	47	1,410	9	16.1	Mar. 28, 1913	-2.1	May 27, 1914	7	862.0
Newcomerstown, Ohio	Sept. 1, 1928	Tuscarawas	14	2,430	11	21.5	Mar. 28, 1913	1.1	June 23, 1925	15	730.5
Coshocton, Ohio	Dec. 16, 1904	Tuscarawas	0	4,840	8	27.5	Mar. 26, 1913	-1.1	Dec. 1, 1904	8	730.5
Uhrichsville, Ohio	July 20, 1922	Stillwater Creek	6	367	11	26.0	Mar. 25, 1913	-1.0	Dec. 1, 1924 ¹	11	811.1
Walhonding, Ohio	Oct. 15, 1913	Walhonding	14	1,480	8	26.0	Nov. 16, 1920	-0.9	Nov. 10, 1908	22	893.8
Glenville, W. Va.	Sept. 10, 1900	Little Kanawha	103	385	23	33.6	Mar. 14, 1918	-3.0	Nov. 4, 1908	15	621.7
Creston, W. Va.	Sept. 10, 1900	Little Kanawha	48	1,347	20	32.0	Jan. 1, 1907	2.3	Sept. 21, 1925	17	615.6
Athens, Ohio	Feb. 16, 1916	Hocking	30	944	17	26.7	July 16, 1916	0.0	Aug. 1, 1917 ¹	17	1,941.9
Ivanhoe, Va.	Oct. 15, 1916	Kanawha-New	310	1,360	15	35.4	Sept. 13, 1878	-2.0	Nov. 3, 1904 ¹	14	1,713.7
Radford, Va.	Jan. 20, 1895	Kanawha-New	250	2,720	14	34.0	July 1, 1916	0.1	Sept. 29, 1920	11	1,492.0
Glenlyn, Va.	May 16, 1926	Kanawha-New	199	3,700	11	24.0	Sept. 13, 1878	0.6	(15)	14	1,365.2
Hinton, W. Va.	June 4, 1887	Kanawha-New	156	6,160	14	20.2	Sept. 13, 1878	-0.9	Oct. 29, 1921	25	618.7
Kanawha Falls, W. Va.	Jan. 1, 1914	Kanawha	95	8,370	25	37.8	Sept. 14, 1878	-0.1	Sept. 15, 1881	30	654.5
Charleston, W. Va.	June 4, 1887	Kanawha	58	10,490	30	46.9	Sept. 29, 1861	0.0	Aug. 30, 1917 ¹	17	1,853.4
Renick, W. Va.	Dec. 1, 1915	Greenbrier	74	680	17	21.6	—, 1889	-1.8	(15)	20	2,006.7
Camden on Gauley, W. Va.	Dec. 5, 1901	Gauley	71	236	20	21.7	Dec. 15, 1901	-1.8	(15)	20	2,006.7
Gassaway, W. Va.	Apr. 1, 1918	Elk	95	578	24	44.0	Mar. 13, 1918	1.0	Aug. 24, 1911	24	796.3
Clay, W. Va.	Dec. 1, 1915	Elk	51	1,010	18	32.4	Mar. 14, 1918	0.1	Sept. 11, 1925 ¹	18	676.6
Sissonville, W. Va.	Nov. 1, 1916	Pocataligo	25	238	33.0	33.0	June 27, 1910	1.0	Sept. 7, 1913	30	594.0
Logan, W. Va.	Nov. 1, 1916	Guyandotte	79	890	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923 ¹	20	638.4
Wayne, W. Va.	Dec. 16, 1924	Twelve Pole Creek	31	291	25	28.3	June 30, 1928	0.4	Oct. 23, 1929	25	604.7
Lock No. 3, Louisa, Ky.	Nov. 1, 1912	Big Sandy	27	3,766	50	48.4	Apr. 3, 1908	0.7	Sept. 25, 1887 ¹	50	616.8
Pikeville, Ky.	June 1, 1907	Big Sandy, Levisa Fork	88	1,202	35	49.0	Jan. 28, 1918	0.0	July—, 1898 ¹	40	635.5
Prestonsburg, Ky.	Dec. 16, 1924	Big Sandy, Levisa Fork	55	1,889	40	43.6	Jan. 29, 1918	—	—	48	588.6
Williamson, W. Va.	Nov. 1, 1901	Big Sandy, Tug Fork	57	868	38	38.1	Jan. 20, 1918	-0.8	Oct. 2, 1908 ¹	40	620.6
Kermit, W. Va.	Feb. 1, 1925	Big Sandy, Tug Fork	35.5	1,240	38	41.7	July —, 1875	2.0	Oct. 3, 1908	53	574.8
Laure, Ohio	Mar. 16, 1916	Scioto	164	255	11	17.8	Mar. 26, 1913	2.0	July 11, 1919 ¹	9	910.2
Prospect, Ohio	Nov. 16, 1904	Scioto	147	554	10	21.1	Mar. 20, 1913	0.2	Oct. 2, 1910	8	891.7
Bellpoint, Ohio	Jan. 1, 1914	Scioto	134	770	9	20.9	Mar. 25, 1913	1.2	Aug. 22, 1921 ¹	6	840.0
Columbus, Ohio	July 1, 1897	Scioto	110	1,610	22	22.9	Mar. 25, 1913	-0.8	July 27, 1923	24	700.0
Circleville, Ohio	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913	-2.2	Aug. 17, 1925 ¹	7	647.0
Chillicothe, Ohio	June 5, 1907	Scioto	58	3,850	16	39.8	Mar. 26, 1913	1.0	Sept. 27, 1916 ¹	15	594.0
Delaware, Ohio	June 16, 1910	Olentangy	25	415	9	25.5	Mar. 25, 1913	-0.5	Aug. 31, 1921 ¹	9	848.6
Kings Mills, Ohio	July 1, 1912	Little Miami	28	793	17	33.7	Mar. 26, 1913	1.0	(15)	17	587.4
Farmers, Ky.	Oct. 5, 1904	Licking	172	768	25	31.1	Feb. 9, 1918	1.0	Sept. 1, 1887 ²	22	635.7
Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	41.1	Aug. 2, 1854	0.0	Sept. 12, 1887 ¹	26	612.2
Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork	46	648	20	35.0	Feb. 6, 1884	0.0	(15)	20	683.8
Sidney, Ohio	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913	0.1	Sept. 1, 1924 ¹	12	924.7
Piqua, Ohio	Nov. 16, 1904	Miami	119	850	17	29.1	Mar. 25, 1913	1.2	Dec. 16, 1922 ¹	17	844.0
Tippencanoe City, Ohio	July 1, 1923	Miami	102	1,016	25	31.7	Mar. 25, 1913	-0.1	Sept. 5, 1925 ¹	25	788.8
Dayton, Ohio	Oct. 1, 1892	Miami	83	2,510	21	31.7	Mar. 26, 1913	-0.3	Oct. 17, 1929 ¹	21	721.0
Miamisburg, Ohio	July 1, 1923	Miami	78	2,720	22	33.6	Mar. 26, 1913	0.2	Sept. 6, 1925 ¹	17	687.4
Franklin, Ohio	July 1, 1923	Miami	73	2,785	16	23.0	Mar. 26, 1913	0.0	Oct. 8, 1924 ¹	15	624.6
Middletown, Ohio	July 1, 1923	Miami	63	3,162	15	29.0	Mar. 26, 1913	-1.4	Sept. 10, 1925 ¹	17	560.0
Hamilton, Ohio	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913	1.2	Jan. 31, 1924 ¹	11	882.0
Springfield, Ohio	Dec. 1, 1913	Mad	25	477	11	16.9	Mar. 25, 1913	0.8	Oct. 4, 1928	13	846.6
Pleasant Hill, Ohio	Mar. 1, 1922	Stillwater	22	502	13	17.5	Mar. 25, 1913	0.8	Sept. 18, 1919	20	595.7
Brookville, Ind.	Oct. 15, 1924	Whitewater	27	1,180	20	43.5	Mar. 26, 1913	0.8	—, 1912	20	838.0
Hazard, Ky.	Mar. 1, 1925	Kentucky, N. Fork	351	450	20	38.5	Feb. 23, 1890	-2.6	June 6, 1916 ¹	30	625.1
Beattyville, Ky.	May 1, 1902	Kentucky	255	1,654	30	46.3	Dec. 26, 1926	4.7	Nov. 24, 1912 ¹	25	605.4
Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.8	Feb. —, 1878	0.4	(15)	30	464.8
Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	(15)	1.7	Oct. 4, 1928	28	402.8
Munfordville, Ky.	July 16, 1924	Green	226	1,790	28	54.0	Jan. 10, 1913	6.1	Sept. 10, 1919 ¹	40	402.8
Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	—	—	—	—	—
Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913 ¹	5.0	Sept. 17, 1902 ¹	44	373.6
Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,600	34	47.9	Mar. 31, 1904	3.7	July 28, 1902	40	343.5
Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	36.5	Jan. 3, 1919	—	—	20	—
Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	11	20.0	Mar. 26, 1913	0.7	June 23, 1913 ¹	10	790.0
Logansport, Ind.	Dec. 1, 1910	Wabash	358	3,179	15	25.5	Mar. 26, 1913	2.2	Dec. 4, 1914	17	570.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	7,120	13	32.9	Mar. 26, 1913	0.3	July 9, 1895 ¹	11	501.2
Covington, Ind.	Jan. 1, 1927	Wabash	268	7,760	16	35.3	Mar. 26 or 27, 1913	2.7	Dec. 4, 1928	16	—
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892	16	446.6
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 29, 1913	-1.0	Dec. 1, 1922 ¹	14	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28,590	16	31.0	Mar. 30, 1913	-0.2	Nov. 7, 1895 ¹	19	372.1
Norway, Ind.	Sept. 1, 1925	Tippencanoe	25	1,800	—	—	—	—	—	6	439.0
Decker, Ind.	Dec. 1, 1913	White	18	10,717	18	28.8	Mar. 29, 1913	0.0	Nov. 23, 1913	16	387.4
Seymour, Ind.	Apr. 17, 1923	White, E. Fork	118	2,140	10	18.1	Mar. 26, 1913	1.0	(15)	10	555.8
Williams, Ind.	Dec. 1, 1920	White, E. Fork	62	4,672	10	17.4	Apr. 19, 1922	-1.5	Sept. 16, 1922	10	472.6
Shoals, Ind.	May 1, 1908	White, E. Fork	42	4,914	20	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914 ¹	25	442.8
Anderson, Ind.	Dec. 1, 1910	White, W. Fork	185	503	12	22.1	Mar. 25, 1913	0.6	(15)	8	827.4
Noblesville, Ind.	Dec. 1, 1913	White, W. Fork	149	900	14	23.8	Mar. 25, 1913	3.0	Aug. 29, 1914	14	737.0
Indianapolis, Ind.	Dec. 1, 1911	White, W. Fork	124	1,610	18	29.5	Mar. 26, 1913	1.6	Aug. 12, 1911 ¹	12	670.7
Elliston, Ind.	May 1, 1908	White, W. Fork	51	4,066	19	31.3	Mar. 27, 1913	3.0	(15)	18	473.2
Edwardsport, Ind.	May 16, 1923	White, W. Fork	30	4,772	15	24.0	(15)	3.0	Dec. 1, 1925 ¹	10	436.0

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1929	January	February	March	April	May	June	July	August	September	October	November	December	1929	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—BLUFFTON, IND. [Flood stage, 11 feet]													WABASH RIVER—LAFAYETTE, IND. [Flood stage, 13 feet]												
1	1.4	3.0	8.8	6.8	2.3	2.7	6.5	1.4	2.3	1.4	2.5	2.2	1	1.4	3.5	12.4	7.8	4.9	7.6	3.7	1.7	1.8	1.3	2.1	1.6
2	1.4	3.0	8.8	6.5	6.3	2.4	2.5	6.0	1.4	2.2	1.4	7.2	2	1.9	2.8	9.0	16.2	4.5	5.8	4.4	1.6	1.3	1.2	2.8	1.9
3	1.3	2.1	6.5	5.0	6.2	2.4	4.4	5.6	4.7	2.2	1.4	8.0	3	2.1	2.8	7.5	16.4	7.8	4.4	6.9	1.9	2.1	1.3	2.6	2.0
4	1.3	2.0	3.8	3.4	5.3	2.3	3.5	3.5		2.1	1.4	8.1	4	2.1	2.8	5.8	12.9	13.3	3.9	7.3	1.6	1.5	1.2	7.6	2.5
5	1.3	2.0	3.8	3.0	3.6	2.1	10.5	2.5		2.1	1.4	7.0	5	2.2	2.7	6.5	9.7	12.2	3.5	6.2	5.7	1.4	1.2	7.6	2.9
6	1.5	1.8	3.7	2.8	2.8	2.0	7.8	2.0		2.0	1.3	5.1	6	2.5	3.0	0.1	8.5	9.7	3.1	8.0	3.9	1.3	1.2	5.8	2.6
7	1.8	1.7	3.5	2.6	2.5	1.8	5.8	1.7		1.8	1.3	3.2	7	1.9	3.1	5.7	7.3	7.7	3.1	12.7	3.9	1.4	1.1	4.5	2.6
8	1.7	1.6	3.0	2.5	2.3	1.7	4.0	1.7		1.8	1.3	2.6	8	2.2	2.9	4.8	8.5	6.3	3.1	9.2	3.5	1.4	1.1	3.6	2.4
9	1.5	1.6	2.9	3.6	2.1	1.7	4.2	1.7		1.6	1.3	2.6	9	2.9	3.2	4.2	10.6	5.6	2.9	6.5	3.1	1.5	1.1	3.0	2.3
10	1.5	1.6	2.8	4.6	2.0	1.7	4.5	1.6		1.6	1.3	2.6	10	2.9	2.6	3.8	10.3	5.0	2.8	5.2	2.9	1.7	1.2	3.0	2.8
11	1.4	1.5	2.2	5.4	1.8	1.7	3.7	1.5		1.6	1.3	2.4	11	3.3	1.9	2.5	11.1	4.8	2.6	5.9	2.8	1.7	1.3	2.8	3.0
12	1.4	1.6	2.0	6.2	2.2	2.2	3.4	1.5		1.6	1.2	3.0	12	3.1	2.1	2.8	13.2	4.3	9.7	5.0	1.9	1.6	1.5	3.1	3.1
13	1.4	1.5	2.2	5.4	4.0	2.6	3.8	1.5		1.6	1.2	4.2	13	2.9	2.5	3.0	12.6	7.4	12.9	5.3	2.2	1.5	1.5	3.5	3.1
14	1.3	1.4	2.8	4.5	8.4	1.9	3.8	5.5		1.6	1.2	3.8	14	3.2	2.5	3.5	9.7	11.3	11.0	4.8	2.2	1.3	1.2	5.2	6.5
15	1.3	1.4	5.1	3.1	7.6	1.7	3.7	0.2		1.6	1.2	3.6	15	2.9	2.4	7.2	8.1	15.1	8.7	6.6	3.2	1.3	1.5	5.1	12.1
16	1.2	1.5	5.8	2.8	7.9	1.7	2.8	6.3		1.6	1.2	3.2	16	2.5	2.6	9.8	6.9	16.7	6.6	6.2	5.6	1.1	1.3	4.4	12.0
17	1.3	1.8	4.6	2.7	7.3	6.2	2.5	5.5		1.5	1.2	3.0	17	2.5	2.7	12.5	0.1	15.1	5.3	4.8	5.2	1.4	1.3	4.0	11.4
18	3.0	2.5	3.8	2.6	4.6	5.3	2.3	3.8		1.5	1.2	2.9	18	3.5	2.7	9.9	5.1	11.4	5.7	3.6	3.6	1.2	1.3	3.6	11.9
19	8.7	2.5	3.0	2.5	6.2	4.9	2.0	2.4		1.5	1.2	2.9	19	13.6	4.3	8.3	4.7	13.2	6.3	3.6	2.8	1.2	1.3	3.6	16.5
20	8.5	2.0	2.8	2.5	6.1	3.1	1.9	2.2		1.5	1.2	2.7	20	16.6	4.7	7.0	4.4	14.1	5.1	2.8	2.6	1.1	1.3	3.4	16.1
21	9.3	2.0	2.8	3.8	5.7	2.7	1.8	2.0		1.5	1.5	2.4	21	10.3	2.0	6.4	4.2	12.9	4.6	2.6	2.2	1.3	1.3	3.4	13.9
22	8.9	2.0	3.1	6.1	3.7	2.3	1.8	2.0		1.5	2.1	2.2	22	13.3	2.9	6.1	6.6	10.3	3.9	2.3	2.1	1.3	1.2	3.3	11.8
23	8.1	2.0	3.5	5.6	2.9	2.0	1.7	1.8		1.5	5.9	2.2	23	15.3	2.7	6.0	8.8	8.1	2.9	2.3	1.9	1.2	1.6	3.0	7.4
24	6.5	1.9	3.3	4.0	2.7	1.9	1.7	2.0		1.4	5.6	2.2	24	16.2	2.4	5.4	7.6	6.1	2.7	2.2	2.0	1.2	1.8	3.8	6.6
25	8.4	2.3	3.0	2.9	2.6	2.3	1.6	2.1		1.4	4.3	2.1	25	13.7	3.0	4.6	6.3	5.4	2.7	2.1	2.0	1.2	4.1	3.4	6.2
26	7.0	7.8	4.0	4.6	2.5	2.4	1.6	2.1		1.4	3.0	2.1	26	12.2	7.6	5.0	7.4	4.9	2.4	2.2	1.5	1.1	1.4	2.6	5.3
27	7.0	8.2	5.0	4.3	2.4	2.6	1.5	2.2		1.4	3.0	2.2	27	11.3	14.0	5.7	10.0	3.9	3.0	2.1	1.6	1.2	3.5	2.7	5.7
28	6.8	9.0	4.4	3.5	3.4	2.2	1.5	2.2		1.4	2.3	2.2	28	9.0	14.3	6.9	8.5	4.8	2.7	2.1	1.3	1.1	2.8	2.7	5.7
29	3.5	-----	3.2	2.8	4.4	2.9	1.5	2.1		1.4	2.2	2.2	29	6.7	-----	5.9	7.0	9.5	2.9	1.9	1.3	1.1	2.8	2.5	6.1
30	3.0	-----	2.9	2.5	4.0	3.2	1.4	2.1		1.4	1.9	2.2	30	5.7	-----	5.2	5.9	12.7	2.5	1.8	1.4	1.1	2.6	2.5	6.1
31	3.0	-----	2.9	-----	3.4	-----	1.4	2.1		1.9	-----	-----	31	4.3	-----	3.8	-----	9.8	-----	1.7	1.4	-----	2.4	-----	6.5
Mean	3.7	2.6	3.7	3.9	4.1	2.6	3.4	2.6	1.7	1.9	3.4	4.8	Mean	-----	-----	6.3	8.7	9.0	4.8	4.6	2.6	1.4	1.6	3.7	7.8
WABASH RIVER, LOGANSFORT, IND. [Flood stage, 15 feet]													WABASH RIVER—COVINGTON, IND. [Flood stage, 16 feet]												
1	3.3	4.0	7.9	8.2	4.9	5.5	-----	-----	-----	4.7	-----	-----	1	4.1	4.8	17.6	48.4	48.6	413.3	45.1	-----	-----	-----	-----	1.4
2	3.9	4.0	6.6	11.2	4.4	4.8	-----	-----	-----	4.7	-----	-----	2	4.1	4.7	15.7	16.1	48.7	410.6	-----	-----	-----	-----	1.4	
3	3.5	4.2	5.9	8.6	7.4	4.6	-----	-----	-----	4.3	-----	-----	3	3.6	4.6	12.4	18.2	410.0	48.6	-----	43.4	-----	-----	1.3	
4	3.5	4.2	5.5	7.1	8.7	4.2	-----	-----	-----	4.4	-----	-----	4	3.6	4.6	10.6	19.7	413.5	47.3	-----	-----	-----	-----	1.3	
5	3.5	4.1	5.7	6.6	7.1	4.1	6.1	-----	-----	4.4	-----	-----	5	3.5	4.6	10.3	18.4	416.4	47.0	412.0	-----	-----	-----	1.2	
6	3.5	3.9	5.5	5.8	6.0	3.9	-----	3.2	-----	4.0	-----	-----	6	4.1	4.5	10.2	15.6	416.0	46.2	413.5	-----	-----	-----	1.2	
7	3.8	3.7	5.2	5.3	5.3	3.8	-----	-----	-----	4.0	-----	-----	7	5.0	4.5	10.0	12.1	413.2	46.0	16.0	-----	-----	-----	1.2	
8	3.3	3.6	4.7	5.5	4.9	3.8	-----	-----	-----	4.0	-----	-----	8	4.5	4.5	9.6	12.2	410.5	46.0	16.7	-----	-----	-----	1.2	
9	3.1	4.1	4.3	6.7	4.5	3.8	-----	-----	-----	4.4	-----	-----	9	5.6	4.5	8.5	14.8	410.3	45.5	413.5	-----	-----	-----	1.2	
10	3.9	4.4	4.1	6.5	4.3	3.7	-----	-----	-----	4.8	-----	-----	10	5.8	4.5	4.8	15.7	418.5	45.2	-----	-----	-----	-----	1.2	
11	3.8	5.0	3.9	7.6	4.2	3.7	-----	-----	-----	4.8	-----	-----	11	6.2	4.9	4.6	15.6	417.4	45.0	-----	-----	-----	-----	1.2	
12	4.1	4.7	3.9	8.0	4.5	4.4	-----	-----	-----	4.5	-----	-----	12	6.2	4.8	4.6	16.1	419.2	45.4	-----	-----	-----	-----	1.2	
13	4.1	4.3	3.8	7.1	6.3	6.4	-----	-----	-----	4.7	-----	-----	13	6.0	4.7	4.5	17.3	410.8	16.2	-----	-----	-----	-----	1.2	
14	4.0	4.2	4.5	6.3	7.8	5.7	-----	-----	-----	9.0	-----	-----	14	5.7	4.6	4.5	16.6	414.4	17.0	-----	-----	-----	-----	1.2	
15	4.0	4.0	7.0	5.6	11.3	4.9	-----	-----	-----	9.6	-----	-----	15	5.3	4.5	4.7	14.2	416.8	15.6	-----	-----	-----	-----	1.2	
16	3.9	3.9	7.9	5.1	10.1	4.5	-----	-----	-----	8.6	-----	-----	16	5.1	4.5	12.1	11.7	418.4	412.4	-----	-----	-----	-----	1.2	
17	3.8	3.8	7.6	4.8	8.2	4.9	-----	-----	-----	8.5	-----	-----	17	4.9	4.4	14.2	11.4	420.0	410.4	-----	-----	-----	-----	1.2	
18	4.8	4.7	6.7	4.6	6.7	6.2	-----	-----	-----	11.5	-----	-----	18	5.1	4.3	10.4	19.4	419.5	48.3	-----	-----	-----	-----	1.2	
19	11.3	5.5	5.8	4.3	8.0	5.3	-----	-----	-----	11.2	-----	-----	19	12.3	4.7	13.4	48.0	18.4	49.4	-----	-----	-----	-----	1.2	
20	11.6	4.7	5.4	4.2	8.4	4.8	-----	-----	-----	9.5	-----	-----	20	16.1	4.7	11.9	47.4	41							

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MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1929	January	February	March	April	May	June	July	August	September	October	November	December	1929	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—TERRE HAUTE, IND.													WABASH RIVER—MT. CARMEL, ILL.												
[Flood stage, 16 feet]													[Flood stage, 16 feet]												
1	1.6	6.7	13.0	6.7	7.8	13.0	3.4	1.6	0.8	0.4	1.8	0.7	1	4.1	22.2	16.7	12.7	9.2	15.1	5.0	3.6	2.5	1.4	2.5	3.0
2	1.2	3.6	13.2	12.0	6.8	11.7	8.5	1.5	0.8	0.3	2.0	0.5	2	4.0	21.1	17.5	11.5	9.0	15.0	5.0	3.5	2.5	1.3	2.7	3.0
3	0.8	(*)	12.8	13.8	9.0	10.7	8.2	1.8	0.8	0.2	2.6	0.0	3	4.0	20.0	18.3	11.5	8.8	14.6	5.8	3.5	2.2	1.3	3.0	2.7
4	1.0	(*)	10.2	14.2	10.4	8.8	7.4	2.0	0.6	0.2	2.6	0.9	4	3.8	18.3	18.8	12.5	10.2	14.0	7.8	3.5	2.1	1.3	4.3	2.6
5	0.8	3.0	10.0	15.0	13.0	7.3	8.2	3.6	0.5	0.2	4.7	1.0	5	3.6	15.2	19.3	13.0	13.1	12.8	9.0	3.5	2.1	1.3	4.3	2.6
6	2.2	2.6	9.2	15.3	13.5	6.4	10.5	3.2	0.6	0.3	6.4	1.0	6	3.7	10.4	19.8	13.1	15.7	11.5	9.8	4.0	2.0	1.2	4.9	2.6
7	1.2	1.2	8.5	14.4	13.4	5.0	13.2	4.6	0.6	0.3	5.7	1.3	7	4.8	8.1	19.5	12.9	17.1	9.8	11.8	4.1	2.0	1.2	5.9	2.8
8	1.2	3.0	6.4	12.3	12.0	7.0	14.8	3.9	0.6	0.3	4.6	1.6	8	4.8	7.3	19.0	12.5	18.0	8.6	13.4	4.1	2.0	1.2	6.4	3.0
9	2.0	3.0	6.5	14.1	9.8	6.4	15.4	3.3	0.8	0.3	3.7	2.2	9	5.0	7.1	18.1	12.5	18.3	8.6	14.5	4.5	2.0	1.1	5.8	3.4
10	2.5	3.0	5.6	15.5	7.8	5.6	15.6	3.1	1.0	0.3	3.2	2.3	10	5.0	6.4	16.4	14.2	18.7	8.5	15.2	4.3	2.0	1.1	5.0	3.7
11	3.2	2.5	4.9	16.0	6.9	4.8	14.5	2.8	0.7	0.3	2.8	2.3	11	5.0	6.1	13.5	16.4	18.0	9.0	15.8	4.2	3.0	1.1	4.3	3.8
12	3.2	2.5	4.2	15.8	6.5	4.5	11.4	3.6	0.6	0.3	2.9	2.6	12	4.7	5.7	10.6	17.9	16.3	8.8	16.0	4.1	3.0	1.5	4.0	4.0
13	3.2	2.0	3.7	15.7	14.4	9.2	9.4	2.4	0.8	0.4	2.9	3.5	13	4.3	5.0	10.1	19.0	14.8	9.5	10.0	3.8	3.0	1.5	3.9	4.0
14	1.4	1.5	3.4	15.3	16.0	13.0	8.4	2.0	0.7	0.4	4.0	8.5	14	4.3	4.6	8.4	19.9	15.5	10.1	15.8	3.5	2.7	1.5	4.0	4.5
15	1.4	1.0	5.6	15.2	17.5	13.7	7.2	1.9	0.6	0.6	5.0	10.2	15	4.0	4.5	9.0	20.5	17.1	12.2	14.8	3.2	2.6	1.5	5.0	5.7
16	1.6	2.0	8.6	14.2	17.9	13.4	7.2	1.8	0.6	0.3	5.2	11.4	16	4.0	4.3	9.8	20.9	18.4	14.0	13.4	3.0	2.4	1.5	5.7	7.8
17	1.5	2.0	11.6	12.0	17.3	11.4	7.4	3.0	0.6	0.4	4.7	12.5	17	4.0	4.2	11.1	21.0	19.3	14.9	11.7	3.0	2.4	1.4	5.6	9.5
18	1.8	2.4	12.4	9.7	17.0	9.0	6.6	4.6	0.4	0.4	4.0	15.2	18	4.0	4.2	12.8	20.9	20.3	15.2	10.7	2.8	2.0	1.3	6.8	12.2
19	10.7	3.4	12.7	8.2	18.7	7.2	5.7	4.2	0.4	0.4	3.6	16.6	19	11.4	4.2	13.7	20.1	21.3	14.6	9.8	3.0	2.0	1.3	6.7	15.0
20	14.3	3.9	12.0	7.2	19.3	7.4	5.0	3.2	0.4	0.4	3.4	16.8	20	15.1	4.7	14.0	18.2	22.1	12.3	8.4	3.8	1.9	1.3	6.4	16.3
21	14.7	3.0	10.2	6.8	18.7	7.0	4.0	2.5	0.4	0.4	3.1	16.8	21	16.7	5.0	13.5	15.3	22.6	10.3	7.4	3.8	1.7	1.4	6.1	17.2
22	14.9	3.4	8.6	6.5	17.8	6.0	3.4	2.0	0.4	0.6	3.0	10.4	22	17.6	5.0	12.7	12.4	23.1	9.6	6.7	3.3	1.6	1.5	5.3	17.7
23	15.6	3.5	7.8	6.8	16.9	5.2	3.2	1.8	0.4	0.4	3.0	10.4	23	18.6	5.0	12.0	11.5	23.5	8.5	5.9	2.8	1.5	1.5	4.8	18.0
24	10.4	3.0	7.4	8.5	15.8	4.6	2.9	2.6	0.4	0.6	3.0	15.0	24	19.4	4.9	11.2	11.3	23.5	7.4	5.4	2.7	1.4	1.6	4.4	18.4
25	17.2	3.1	6.3	9.0	13.8	4.0	2.8	2.4	0.4	1.2	2.4	11.7	25	21.0	5.0	10.6	11.3	23.4	6.8	4.9	2.7	1.4	1.5	4.0	19.0
26	17.6	5.1	6.5	9.1	10.8	3.7	2.4	1.8	0.4	1.2	2.2	9.5	26	21.9	7.8	10.2	11.7	23.0	6.5	4.7	3.0	1.5	2.7	3.7	19.3
27	17.1	10.4	9.7	9.1	8.7	3.4	2.3	1.4	0.6	2.7	1.8	8.7	27	22.2	13.4	10.5	11.5	22.6	6.1	4.4	2.8	1.5	3.0	3.4	19.5
28	16.4	12.2	9.0	10.2	8.4	3.2	2.2	1.0	0.5	2.7	2.0	9.0	28	22.8	15.2	11.9	10.5	21.7	5.8	4.1	2.7	1.4	3.0	3.3	17.8
29	14.8	8.4	10.4	9.1	3.4	2.2	1.0	0.4	2.5	2.1	2.1	9.2	29	23.0	12.4	10.0	19.8	5.5	4.1	2.7	1.4	3.4	3.3	16.3	
30	10.2	8.2	9.0	10.6	3.2	1.8	0.8	0.4	2.1	2.0	2.0	9.0	30	23.0	12.5	10.0	17.3	5.2	4.1	2.5	1.4	2.6	3.0	13.8	
31	8.2	7.2	12.7	12.7	1.6	1.6	0.8	0.8	1.8	1.8	9.2		31	22.7	12.7	16.0	10.0	4.0	2.5	2.5	2.6	2.6		13.0	
Mean	8.1		8.5	11.6	12.8	7.3	7.0	2.5	0.6	0.7	3.3	7.8	Mean	10.7	8.7	13.8	14.6	18.0	10.4	9.2	3.4	2.0	1.6	4.6	10.5
WABASH RIVER—VINCENNES, IND.													WABASH-TIPPECANOE RIVER—NORWAY, IND.												
[Flood stage, 14 feet]													[Flood stage, 6 feet]												
1	2.2	12.5	10.3	8.0	8.2	11.0						42.0	1	5.8	5.7	5.7	6.4	5.6	5.5	5.7	5.9	5.5	5.9	5.8	5.5
2	2.0	9.2	10.9	7.3	7.6	11.0						42.0	2	5.7	5.6	5.8	6.3	5.8	5.1	5.8	5.8	5.9	5.8	5.7	6.0
3	2.0	5.3	10.9	8.9	6.9	10.8						42.0	3	5.8	5.3	5.6	6.4	6.5	5.8	5.6	6.4	6.0	5.8	5.4	6.1
4	1.8	4.5	10.9	10.3	8.3	10.5						41.8	4	5.8	5.9	6.1	6.4	6.3	6.1	5.4	6.3	5.9	5.8	6.1	6.1
5	1.7	4.0	10.5	11.5	10.7	9.8						41.6	5	5.9	6.0	6.3	6.5	6.5	5.7	5.7	6.0	5.9	5.8	5.9	6.0
6	1.7	3.7	10.1	11.7	12.1	8.3						41.6	6	5.9	6.0	6.2	6.5	6.2	5.6	5.9	6.1	5.9	5.8	5.9	5.9
7	2.2	3.4	8.9	11.8	13.0	6.5						41.5	7	6.0	5.8	5.8	6.2	6.4	5.4	5.3	6.0	5.8	6.1	5.9	5.8
8	2.8	2.8	8.4	11.9	13.1	6.1						41.6	8	5.6	5.2	5.6	6.5	6.5	5.2	6.1	5.8	5.6	6.0	5.7	5.7
9	2.6	3.2	7.6	12.1	13.0	7.8	10.8					41.8	9	5.7	5.0	5.2	6.4	6.4	5.1	5.8	5.8	6.0	5.8	5.6	6.0
10	2.8	3.0	6.1	13.4	11.7	7.7	11.6					41.8	10	5.8	5.1	4.5	6.1	6.1	6.1	5.4	5.7	6.0	5.8	5.6	5.8
11	2.2	3.0	5.4	14.3	9.9	6.1	11.8					42.0	11	5.8	5.7	5.6	6.5	6.3	5.8	5.3	5.5	5.9	5.8	6.1	5.9
12	2.6	3.2	4.8	14.9	9.0	5.8	12.0					42.0	12	5.8	5.8	5.8	6.4	5.7	6.0	5.4	6.0	5.9	5.9	5.9	5.9
13	2.8	2.8	4.1	15.9	9.8	6.4	11.8					42.2	13	5.8	5.9	5.8	6.2	5.5	5.9	5.6	5.7	5.8	5.8	6.0	6.0
14	4.8	2.6	4.5	16.2	11.3	8.7	10.7					42.5	14	6.0	5.8	6.1	6.3	5.5	6.5	5.7	5.6	5.7	5.9	6.0	5.9
15	5.1	2.4	5.3	16.3	13.0	11.0						5.3	15	5.9	5.9	5.5	6.2	6.0	6.2	5.9	5.7	5.6	5.9	5.8	5.8
16	5.0	2.4	5.8	15.6	14.2	11.8						8.2	16	5.9	5.9	6.4	6.3	6.0	5.6	5.8	5.7	6.0	5.9	5.4	6.0
17	5.0	2.4	7.2	15.2	15.1	12.0						8.8	17	5.8	5.5	6.3	6.0	5.9	5.9	5.8	5.7	5.8	5.9	5.3	5.8
18	5.2	2.6	8.9	14.4	16.0	11.6						9.7	18	5.9	6.0	6.3	6.2	5.4							

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Omission of page number under "gage reading" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE

PRINCIPAL RIVERS OF THE UNITED STATES

VOLUME XXV

FOR THE YEAR 1927

REFERENCE
DO NOT CIRCULATE

Community Affairs File

BY
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SENIOR METEOROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1927, constitutes the twenty-fifth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
- Daily Stages at River Gage Stations on the Principal Rivers of the United States.
- IV. 1890 to 1892.
- V. 1893 to 1895.
- VI. 1896 to 1899.
- VII. 1900 to 1904.
- VIII. 1905 and 1906.
- IX. 1907 and 1908.
- X. 1909 and 1910.
- XI. 1911 and 1912.
- XII. 1913 and 1914.
- XIII. 1915.
- XIV. 1916.
- XV. 1917.
- XVI. 1918.
- XVII. 1919.
- XVIII. 1920.
- XIX. 1921.
- XX. 1922.
- XXI. 1923.
- XXII. 1924.
- XXIII. 1925.
- XXIV. 1926.

Volumes I to XIV are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

In order that all readings for a given station may be comparable, a table of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This table immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following tabulation:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.-----	Hudson River system.
Atlanta, Ga.-----	Apalachicola River system.
Augusta, Ga.-----	Savannah River.
Binghamton, N. Y.----	Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.----	Missouri River at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below El Paso, Tex.
Champaign, Ill. ¹ -----	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ ----	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River; the Little Miami, and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky River.
Columbia, S. C. ² -----	Santee River system.
Columbus, Ohio.-----	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.-----	Merrimac River.
Dallas, Tex.-----	Trinity River above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River from below Dubuque to Muscatine, Iowa.
Dayton, Ohio.-----	Miami River.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Denver, Colo.....	Colorado River, except the Gila River; Arkansas River in the State of Colorado, Pecos River, Rio Grand to El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.....	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except the upper Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids, Wis.
Evansville, Ind. ¹	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.....	Arkansas and Neosho Rivers from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River; Verdigris River.
Fort Wayne, Ind.....	Maumee River.
Fresno, Calif.....	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, MI.....	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ²	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines River east of Des Moines, Iowa.
Harrisburg, Pa.....	Susquehanna River, except at and above Binghamton, N. Y.
Hartford, Conn.....	Connecticut River.
Houston, Tex.....	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.....	Wabash River system.
Kansas City, Mo.....	Missouri River from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River at Knoxville, Tenn.; Holston and French Broad Rivers.
La Crosse, Wis. ²	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.....	Grand River from headquarters to and including Grand Ledge, Mich.; Saginaw River system.
Little Rock, Ark.....	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Los Angeles, Calif.....	Los Angeles River.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannelton, Ind.; Kentucky River.
Macon, Ga.....	Altamaha River system.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River of Arkansas.
Meridian, Miss.....	Pearl and Pascagoula River systems.
Minneapolis, Minn. ²	Mississippi River at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee and Black Warrior Rivers.
Montgomery, Ala. ¹	Alabama River system.
Moorhead, Minn.....	Red River of the North.
Nashville, Tenn. ¹	Cumberland River.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.....	Canadian River east of boundary of New Mexico.
Omaha, Nebr.....	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., excluding the Great Kanawha River.
Philadelphia, Pa.....	Delaware River system.
Phoenix, Ariz.....	Gila River.
Pittsburgh, Pa. ¹	Allegheny and Monongahela Rivers; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Oreg.....	Columbia River system.
Raleigh, N. C.....	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.....	James River.
Sacramento, Calif.....	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, the Eel, and Los Angeles Rivers.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Missouri River east of Lexington, Mo., except the Osage River in Kansas; Illinois River; Meramec River; White, Black, and St. Francis Rivers in the State of Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Topeka, Kans.....	Kansas River; Neosho and Osage Rivers in Kansas.
Vicksburg, Miss.....	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.....	Potomac River.
Wausau, Wis.....	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.....	Arkansas River in the State of Kansas.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

LIST OF MOST FREQUENT ABBREVIATIONS USED IN THIS PUBLICATION

B. M. Bench mark.
P. B. M. Permanent bench mark.
T. B. M. Temporary bench mark.
msl. Mean sea level.
mgl. Mean gulf level.
M. R. C. Mississippi River Commission.
U. S. E. United States Engineer Corps.

U. S. G. S. United States Geological Survey.
U. S. R. S. United States Reclamation Service.
U. S. W. B. United States Weather Bureau.
U. S. C. & G. S. United States Coast and Geodetic Survey.
W. and P. R. B. Water and Power Resources Board, Pennsylvania.

MISCELLANEOUS DATA OF RIVER STATIONS

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Contd.

[Stations taking occasional observations only print in italics. Reference notes are at the end of this table]

Station	Established	River	Distance above mouth of river	Drainage area above station	Flood stage	Highest stage	Date	Lowest	Date	Width of river at low water	Bankful stage	Width of river at bankful stage	Elevation of zero of gage above msl.
MISSISSIPPI DRAINAGE—Contd.													
Ohio Basin—Contd.													
Dover, Ohio	Jan. 1, 1905	Tuscarawas	Miles 47	Sq. miles 1,410	Feet 9	Feet 16.1	Mar. 28, 1913	Feet -2.1	May 27, 1914	Feet 350	Feet 7	Feet 400	Feet 862.0
Gnadenhuetten, Ohio	June 1, 1923	Tuscarawas	26	1,503	9	19.5	Mar. 28, 1913			240	13	480	811.8
Coshocton, Ohio	Dec. 16, 1904	Tuscarawas	0	4,840	8	27.5	Mar. 26, 1913	-1.1	Dec. 1, 1904	300	8	325	730.5
Uhrichsville, Ohio	July 20, 1922	Stillwater Creek	6	367						100			
Walbonding, Ohio	Oct. 15, 1913	Walbonding	14	1,480	8	26.0	Mar. 25, 1913	-1.0	Dec. 1, 1924	75	8	335	811.1
Glenville, W. Va.	Sept. 10, 1900	Little Kanawha	103	385	23	33.6	Nov. 16, 1920	-0.9	Nov. 10, 1908	75	22	300	693.5
Creston, W. Va.	Sept. 10, 1900	Little Kanawha	48	1,347	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1900	200	15	300	621.7
Athens, Ohio	Feb. 16, 1916	Hocking	30	944	17	26.7	Jan. 1, 1907	2.4	Aug. 19, 1924	107	17	137	615.6
Ivanhoe, Va.	Oct. 15, 1916	Kanawha-New	310	1,360	15	35.4	July 16, 1916	0.0	Aug. 1, 1917	280	17	800	1,941.9
Radford, Va.	Jan. 26, 1895	Kanawha-New	250	2,720	14	34.0	Sept. 13, 1878	-2.0	Nov. 3, 1904	580	14	650	1,713.7
Glenlyn, Va.	May 16, 1926	Kanawha-New	199	3,700	11	24.0	July 1, 1916			650	11	850	1,462.0
Hinton, W. Va.	June 4, 1887	Kanawha-New	166	6,160	14	20.2	Sept. 13, 1878	0.5		600	14	700	1,365.2
Kanawha Falls, W. Va.	Jan. 1, 1914	Kanawha	95	8,370	25	37.8	Sept. 14, 1878	-0.9	Oct. 29, 1921	650	25	1,040	618.7
Charleston, W. Va.	June 4, 1887	Kanawha	58	10,490	30	40.9	Sept. 29, 1861	-0.1	Sept. 15, 1881	600	30	700	554.5
Remick, W. Va.	Dec. 1, 1915	Greenbrier	74	680	17	21.6	—, 1889	0.0	Aug. 30, 1917	290	17	330	1,853.4
Camden-on-Gauley, W. Va.	Dec. 5, 1901	Gauley	71	236	20	21.7	Dec. 15, 1901	-1.8	(*)	100	20	215	2,005.7
Gassaway, W. Va.	Apr. 1, 1918	Elk	95	578	24	44.0	Mar. 13, 1918	1.0	Aug. 24, 1911	160	24	380	796.3
Clay, W. Va.	Dec. 1, 1915	Elk	51	1,010	18	32.4	Mar. 14, 1918	0.1	Sept. 11, 1925	190	18	270	676.6
Sissonville, W. Va.	Nov. 1, 1916	Pocataligo	25	238		33.0	June 27, 1910	1.0	Sept. 7, 1913		30		594.0
Logan, W. Va.	Nov. 1, 1915	Guyandotte	79	890	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923	133	20	240	638.4
Wayne, W. Va.	Dec. 16, 1924	Twelve Pole Creek	31	291	25	25.0	(*)	1.0	Oct. 5, 1919	67	25	130	604.7
Lock No. 3, Louisa, Ky.	Nov. 1, 1912	Big Sandy	27	3,766	50	48.4	Apr. 3, 1908	0.7	Sept. 25, 1887	200	50	450	516.8
Pikeville, Ky.	June 1, 1907	Big Sandy, Levisa Fork	88	1,202	35	49.0	Jan. 28, 1918	0.0	July 1, 1898	222	40	394	635.6
Prestonsburg, Ky.	Dec. 16, 1924	Big Sandy, Levisa Fork	55	1,880	40	43.6	Jan. 29, 1918			190	48	430	588.6
Williamson, W. Va.	Nov. 1, 1901	Big Sandy, Tug Fork	57	868	38	38.1	Jan. 29, 1918	-0.8	Oct. 2, 1908	200	40	360	620.6
Kermit, W. Va.	Feb. 1, 1925	Big Sandy, Tug Fork	38	1,240	38	41.7	July 1, 1875	0.0	Oct. 3, 1908	150	53	340	574.8
Larue, Ohio	Mar. 16, 1916	Scioto	164	255	11	17.8	Mar. 26, 1913	2.0	July 11, 1919	85	9	120	910.2
Prospect, Ohio	Nov. 16, 1904	Scioto	147	554	10	21.1	Mar. 26, 1913	0.2	Oct. 2, 1910	150	8	150	891.7
Bellpoint, Ohio	June 1, 1914	Scioto	134	770	9	20.9	Mar. 25, 1913	1.2	Aug. 22, 1921	200	6	273	840.0
Dublin, Ohio	Apr. 1, 1916	Scioto	123	988	8	15.5	Mar. 25, 1913	-2.6	Dec. 5, 1924	280	6	370	757.9
Columbus, Ohio	July 1, 1897	Scioto	110	1,610	22	22.9	Mar. 25, 1913	-0.8	July 27, 1923	522	24	578	700.0
Circleville, Ohio	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913	-2.2	Aug. 17, 1925	425	7	507	647.0
Chillicothe, Ohio	June 5, 1907	Scioto	58	3,850	16	39.8	Mar. 26, 1913	1.0	Sept. 27, 1916	200	15	300	594.0
Delaware, Ohio	June 16, 1910	Scioto	25	415	9	25.5	Mar. 25, 1913	-0.5	Aug. 31, 1921	180	9	253	583.6
Kings Mills, Ohio	July 1, 1912	Little Miami	25	793	17	33.7	Mar. 26, 1913	0.5	(*)	175	17	320	587.4
Farmers, Ky.	Oct. 5, 1904	Licking	172	768	25	31.1	Feb. 9, 1918	0.5	(*)	135	22	314	635.7
Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	41.1	Aug. 2, 1854	0.0	Sept. 12, 1887	252	26	300	512.2
Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork	46	648	20	35.0	Feb. 6, 1884	0.0	(*)	185	20	300	683.8
Sidney, Ohio	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913	0.1	Sept. 1, 1924	110	12	260	924.7
Piqua, Ohio	Nov. 16, 1904	Miami	119	850	17	29.1	Mar. 25, 1913	1.2	Dec. 16, 1922	150	17	350	844.0
Tippicanoe City, Ohio	July 1, 1923	Miami	102	1,016	25					100	25	250	788.8
Dayton, Ohio	Oct. 1, 1892	Miami	83	2,510	21	31.7	Mar. 25, 1913	-0.1	Sept. 5, 1925	350	21	600	721.0
Miamisburg, Ohio	July 1, 1923	Miami	78	2,720	22	33.6	Mar. 26, 1913	0.0	Aug. 31, 1924	350		665	678.4
Franklin, Ohio	July 1, 1923	Miami	73	2,785	16	23.0	Mar. 26, 1913	0.2	Sept. 6, 1925	260		365	658.4
Middletown, Ohio	July 1, 1923	Miami	63	3,162	15	29.0	Mar. 26, 1913	0.0	Oct. 8, 1924	250	15	300	624.6
Hamilton, Ohio	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913	-1.4	Sept. 10, 1925	400	17	500	560.0
Springfield, Ohio	Dec. 1, 1913	Mad	25	477	11	16.9	Mar. 25, 1913	1.2	Jan. 31, 1924	110	11	300	882.0
Pleasant Hill, Ohio	Mar. 1, 1922	Stillwater	22	502	13	17.5	Mar. 25, 1913	0.9	Sept. 4, 1925	200	13	250	840.6
Brookville, Ind.	Oct. 15, 1924	Whitewater	27	1,180	20	43.5	Mar. 26, 1913	0.8	Sept. 18, 1919	170	20	450	595.7
Hazard, Ky.	Mar. 1, 1902	Kentucky, N. Fork	351	450	20	38.5	—, 1912			200	20	320	535.0
Beattyville, Ky.	May 1, 1925	Kentucky	255	1,654	30	46.3	Feb. 23, 1890	-2.6	June 6, 1916	400	30	800	626.2
Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912	350	25	450	505.4
Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	Feb. 1, 1878	0.4	(*)	400	30	500	464.8
Munfordville, Ky.	July 16, 1924	Green	226	1,790	28	54.0	(*)	2.2	Sept. 2, 1921		28	350	
Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919	290	40	520	402.8
Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902	450	44	600	373.6
Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,600	34	47.9	Mar. 31, 1904	3.7	July 28, 1902	700	40	1,000	343.5
Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	36.5	Jan. 3, 1919			112	20	250	
Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	11	20.0	Mar. 26, 1913	0.7	June 23, 1913	190	10	200	796.0
Logansport, Ind.	Dec. 1, 1910	Wabash	358	3,179	15	25.5	Mar. 26, 1913	2.2	Dec. 4, 1914	476	17	581	570.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	6,200	11	32.9	Mar. 26, 1913	0.3	July 9, 1895	450	11	500	501.1
Covington, Ind.	Jan. 1, 1927	Wabash	268	7,760	16	35.3	Mar. 26 or 27, 1913			460	16	600	
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892	540	16	662	447.3
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 29, 1913	-1.0	Dec. 1, 1922		14	782	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28,590	16	31.0	Mar. 30, 1913	-0.2	Nov. 7, 1895	742	19	1,680	372.1
Rochester, Ind.	Sept. 1, 1925	Tippicanoe	116	650	6					100	6		
Norway, Ind.	Sept. 1, 1925	Tippicanoe	25	1,800	6								639.0
Decker, Ind.	Dec. 1, 1913	White	18	10,717	18	28.8	Mar. 29, 1913	0.0	Nov. 23, 1913	600	16	675	387.4
Seymour, Ind.	Apr. 17, 1923	White, E. Fork	118	2,140	10	18.1	Mar. 26, 1913	0.0	(*)	300	10	412	555.8
Williams, Ind.	Dec. 1, 1920	White, E. Fork	62	4,672	10	17.4	Apr. 19, 1922	-1.5	Sept. 16, 1922	290	10		472.6
Shoals, Ind.	May 1, 1908	White, E. Fork	42	4,914	20	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914	300	25	450	443.0
Anderson, Ind.	Dec. 1, 1910	White, W. Fork	185	503	12	22.1	Mar. 25, 1913	0.6	(*)	126	8	400	827.4
Noblesville, Ind.	Dec. 1, 1913	White, W. Fork	149	900	14	23.8	Mar. 25, 1913	3.0	Aug. 29, 1914	226	14	1,646	737.0
Indianapolis, Ind.	Dec. 1, 1911	White, W. Fork	124	1,610	18	29.5	Mar. 26, 1913	1.6	Aug. 12, 1911	260	12	400	670.7
Elliston, Ind.	May 1, 1908	White, W. Fork	51	4,066	19	31.3	Mar. 27, 1913	3.0	(*)	300	18	500	473.2
Edwardsport, Ind.	May 16, 1923	White, W. Fork	30	4,772	15	24.0	(*)			60	10	100	436.0
Williamsburg, Ky.	Feb. 1, 1908	Cumberland	589	1,620	22	33.0	Mar. 30 or 31, 1886	-2.5	Sept. 16, 1919	260	19	300	892.4
Burnside, Ky.	Dec. 15, 1884	Cumberland	519	4,890	50	69.5	Jan. 29, 1918	-1.6	Nov. 8, 1895	200	50	350	585.6
Celina, Tenn.	Dec. 1, 1903	Cumberland	383	7,320	45	57.2	Dec. 29, 1926	-0.2	Oct. 6, 1911	350	45	600	489.7
Carthage, Tenn.	Feb. 10, 1885	Cumberland	308	10,740	40	59.1	Dec. 30, 1926	-0.4	Nov. 16, 1902	450	40	540	437.9
Nashville, Tenn.	May 18, 1873	Cumberland	193	12,860	40	56.2	Jan. 1, 1927	-0.1	Sept. 13, 1881	400	40	675	368.2
Clarksburg, Tenn.	Dec. 1, 1900	Cumberland	127	15,980	46	60.6	Jan. 1, 1882	-1.0	Sept. 18, 1913	500	46	705	331.3

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1927	January	February	March	April	May	June	July	August	September	October	November	December	1927	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—TERRE HAUTE, IND.													WABASH RIVER—MOUNT CARMEL, ILL.												
[Flood stage, 16 feet]													[Flood stage, 16 feet]												
1	2.2	14.6	6.8	11.4	10.2	17.9	4.1	2.8	1.0	7.7	2.1	15.6	1	6.2	19.5	8.4	22.7	14.6	24.5	5.9	3.5	2.3	8.2	3.0	13.0
2	3.0	14.7	7.0	14.5	12.0	16.4	3.8	2.7	1.0	12.6	1.9	17.7	2	6.0	19.6	8.3	21.3	14.5	24.8	5.5	3.4	2.2	8.8	2.9	15.7
3	3.0	15.8	6.4	15.1	12.7	15.1	3.6	2.4	1.0	13.6	2.0	19.7	3	5.8	19.3	8.3	20.0	14.2	24.7	5.1	4.0	2.2	10.0	2.8	16.5
4	3.0	17.6	5.0	15.3	12.1	14.9	3.4	2.0	0.9	12.5	2.3	21.0	4	5.6	18.7	8.1	19.2	14.0	24.4	4.9	4.5	2.1	10.4	2.7	17.2
5	3.7	18.3	5.1	15.9	10.3	14.9	3.1	2.0	0.9	10.8	2.3	21.0	5	6.3	18.3	7.5	19.2	13.4	23.7	4.7	4.2	2.0	10.4	2.6	18.7
6	4.3	18.3	4.9	17.0	8.7	14.7	2.9	1.9	0.8	8.8	2.4	21.0	6	7.4	18.3	7.1	19.4	12.5	22.7	4.4	4.0	2.0	10.1	2.6	18.7
7	4.6	17.7	4.6	17.7	7.4	14.6	2.6	2.0	0.7	7.3	2.3	20.3	7	8.0	18.4	7.0	19.6	11.7	21.2	4.2	3.9	1.9	9.1	2.8	20.0
8	4.9	17.1	5.0	17.1	6.9	14.6	2.5	2.8	5.8	6.3	2.4	19.7	8	8.5	18.6	7.4	19.8	11.6	20.1	4.0	3.8	1.9	8.1	3.0	21.0
9	4.0	18.2	5.4	16.7	7.7	14.4	2.5	4.1	4.0	5.6	2.2	19.4	9	8.4	18.8	8.6	20.1	11.4	19.2	3.8	3.9	2.0	7.1	3.0	21.9
10	3.9	18.3	6.0	16.6	7.5	13.6	2.4	2.4	3.0	5.0	2.0	18.8	10	8.1	18.9	8.8	20.3	11.4	18.1	3.8	4.5	3.9	6.4	2.9	21.9
11	3.7	18.0	7.6	16.3	8.6	10.9	2.4	2.4	2.1	4.2	1.9	18.6	11	7.2	19.1	8.6	20.5	12.6	17.3	3.8	4.7	3.7	6.1	2.8	21.8
12	3.2	17.0	7.1	15.9	8.5	9.0	2.0	2.4	1.8	4.5	2.0	18.4	12	7.0	19.1	8.5	20.6	15.0	16.0	3.7	4.0	3.5	6.0	2.7	21.1
13	1.0	15.5	6.6	15.3	8.1	8.5	2.3	2.4	1.6	12.2	2.1	17.8	13	6.5	18.9	9.0	20.7	15.4	14.4	3.6	3.9	3.2	5.9	2.8	21.0
14	1.0	13.4	6.8	15.3	7.5	7.9	2.2	4.9	1.2	12.4	2.1	17.7	14	5.3	18.3	10.7	20.3	15.2	13.5	3.6	4.2	2.6	7.7	2.9	21.5
15	1.0	10.2	7.0	14.5	6.8	7.8	2.2	4.0	2.1	11.2	2.2	17.6	15	5.0	17.7	12.0	19.5	14.8	13.0	3.6	4.4	2.4	9.2	3.0	21.8
16	1.0	10.2	8.5	13.5	6.3	7.4	6.8	3.2	2.4	9.5	2.4	17.8	16	4.8	17.3	12.8	18.8	14.1	12.5	3.6	4.8	2.2	10.1	3.0	21.9
17	1.0	9.6	9.5	14.0	5.6	6.6	6.3	2.5	1.9	8.1	3.2	17.8	17	4.8	16.8	13.3	18.2	13.3	11.9	3.9	4.6	2.0	9.9	3.4	22.0
18	1.0	10.2	9.5	14.3	5.3	6.2	7.0	2.7	1.5	6.2	3.6	18.1	18	4.8	15.8	14.2	17.3	11.8	10.8	5.1	4.5	2.4	9.2	4.0	22.0
19	2.0	10.2	10.2	14.4	7.5	9.8	5.6	2.2	1.2	5.2	3.4	18.2	19	7.3	14.1	15.8	17.2	10.8	9.8	5.2	4.1	2.5	8.1	4.4	21.8
20	3.0	9.4	15.3	15.0	14.2	9.3	4.6	2.0	0.8	4.8	3.0	18.0	20	11.8	13.0	16.7	16.7	12.2	9.4	5.2	3.9	2.3	6.8	4.7	21.8
21	3.2	8.6	17.6	15.5	16.7	8.0	4.1	1.8	0.8	4.2	2.8	17.2	21	13.7	12.0	18.2	16.5	14.6	9.2	5.0	3.6	2.0	5.6	4.9	21.8
22	3.6	7.4	18.7	15.9	19.1	8.3	3.7	1.5	0.8	3.8	2.6	14.6	22	14.9	11.0	19.5	17.1	16.1	9.8	4.5	3.3	1.9	5.1	4.9	21.8
23	3.8	6.9	19.1	16.3	20.0	10.1	3.3	1.3	0.8	3.4	2.2	11.2	23	16.0	10.3	21.2	17.7	17.0	10.7	4.2	3.1	1.8	4.6	4.5	21.1
24	4.5	6.4	19.7	16.5	19.9	8.9	2.9	1.3	1.0	3.3	2.4	10.4	24	16.5	9.5	22.3	18.1	18.1	11.3	4.0	2.7	1.8	4.3	4.3	20.0
25	5.8	5.9	20.5	16.0	19.6	7.9	2.5	1.3	0.7	3.0	3.1	8.0	25	17.1	9.0	23.0	18.4	19.5	11.2	3.8	2.7	1.8	4.1	4.3	18.1
26	6.2	5.8	20.5	14.8	20.0	7.2	2.4	1.4	0.7	2.7	5.0	7.2	26	18.0	8.7	23.7	18.5	21.0	10.7	3.7	2.6	1.8	3.9	4.3	15.1
27	6.9	6.2	19.7	12.7	19.9	6.0	2.2	1.3	0.7	2.6	6.4	6.5	27	18.4	8.5	24.1	18.0	22.0	9.8	3.5	2.6	1.8	3.6	4.7	12.1
28	5.8	6.4	18.4	10.9	18.7	5.2	2.0	1.2	0.7	2.4	6.5	6.2	28	18.5	8.5	24.3	17.0	22.7	8.5	3.2	2.4	1.8	3.4	5.8	10.1
29	5.5	-----	10.8	9.5	20.1	4.5	2.0	1.0	1.8	2.4	7.0	6.9	29	18.7	-----	24.1	15.7	23.0	7.2	2.9	2.4	2.0	3.3	8.0	9.1
30	8.8	-----	14.5	9.2	20.9	4.4	2.0	1.0	3.0	2.3	11.6	7.8	30	18.8	-----	23.9	15.1	23.5	6.7	3.3	2.4	5.0	3.2	9.7	9.1
31	14.2	-----	11.5	-----	19.5	-----	1.8	1.0	-----	2.2	-----	8.6	31	19.2	-----	23.4	-----	24.0	-----	3.6	2.3	-----	3.1	-----	9.1
Mean	5.3	12.5	11.0	14.8	12.6	10.2	3.3	2.2	1.6	6.5	3.2	15.4	Mean	11.1	15.6	14.5	18.8	15.7	14.9	4.2	3.6	2.4	6.8	4.0	18.1
WABASH RIVER—VINCENNES, IND.													WABASH-TIPPECANOE RIVER—NORWAY, IND.												
[Flood stage, 14 feet]													[Flood stage, 6 feet]												
1	3.5	10.9	5.5	17.0	10.1	21.9	4.1	2.2	1.0	3.2	2.4	10.4	1	5.5	6.4	5.3	5.6	6.4	6.4	5.3	5.6	5.6	5.8	5.8	6.0
2	3.5	11.7	5.7	16.2	8.9	22.3	3.6	2.4	1.0	5.3	2.4	11.8	2	5.5	6.4	5.0	6.5	6.4	6.4	5.3	6.0	5.7	5.5	5.8	5.8
3	3.3	12.2	6.0	15.3	9.6	21.7	3.4	2.5	1.0	8.9	2.4	12.6	3	5.8	6.3	5.1	6.3	6.5	6.3	5.2	5.9	5.5	5.3	5.9	6.0
4	3.3	12.4	5.9	14.7	10.3	20.5	3.2	2.0	1.0	9.6	2.4	12.8	4	5.7	6.2	5.4	6.4	6.5	6.5	5.4	5.8	5.4	5.2	5.9	6.0
5	3.3	12.7	5.4	14.7	10.6	19.1	3.1	2.0	1.0	10.0	2.5	13.1	5	5.5	6.1	5.4	6.3	6.5	6.5	5.6	5.8	5.7	5.8	5.8	6.0
6	3.6	13.4	5.0	14.9	9.6	17.5	3.1	1.8	1.0	9.3	2.4	15.5	6	5.9	6.0	5.6	6.3	6.4	6.4	5.2	5.7	5.8	5.8	6.0	4.8
7	4.2	14.2	5.0	14.9	8.4	16.4	3.0	1.8	1.1	7.5	2.4	17.3	7	6.0	5.9	6.0	6.4	6.4	6.5	4.8	5.8	5.7	5.8	5.1	6.0
8	4.6	15.6	5.2	15.0	7.7	15.5	2.8	2.1	1.8	6.3	2.6	18.6	8	5.6	5.9	6.2	6.4	6.4	6.4	4.7	5.8	5.8	5.4	5.2	5.2
9	4.7	16.3	6.2	15.5	8.3	14.8	2.7	3.7	3.8	5.8	2.5	19.1	9	5.4	6.0	5.7	6.4	6.4	6.3	5.3	5.8	5.6	5.1	5.1	5.1
10	4.3	16.7	5.6	16.0	8.0	14.2	2.5	3.5	3.4	5.2	2.5	19.0	10	5.0	6.4	5.8	6.5	6.0	6.3	5.3	5.8	5.2	5.5	5.2	5.2
11	4.2	16.8	5.5	16.1	8.9	13.8	2.3	2.6	2.8	4.8	2.4	18.2	11	5.0	6.3	5.2	6.4	6.2	6.3	5.8	5.8	5.3	5.4	5.1	5.1
12	4.0	16.6	6.1	16.0	8.6	12.7	2.2	2.3	2.0	4.6	2.4	18.2	12	4.8	6.3	5.3	6.2	6.2	6.4	5.3	5.6	5.0	6.0	5.1	5.1
13	4.0	16.6	6.6	15.8	8.2	11.5	2.0	2.3	1.8	9.3	2.3	18.5	13	4.5	5.8	5.6	6.0	5.8	6.4	5.2	5.9	5.5	6.2	5.3	5.3
14	4.0	16.4	7.1	15.6	7.7	10.2	2.3	2.0	1.6	9.0	2.3	18.7	14	3.8	6.3	6.2	6.1	5.9	5.6	4.8	5.6	5.5	6.1	6.1	6.1
15	4.0	16.6	7.2	15.2	7.0	8.7	2.5	3.9	1.4	9.5	2.3	18.5	15	4.0	6.4	6.2	6.3	5.8	5.5	6.5	5.9	5.7	5.3	6.0	6.0
16	3.8	15.9	6.6	14.9	6.5	7.6	2.7	3.3	1.3	9.7	2.5	18.4	16	4.8	6.4	5.8	5.9	6.2	5.2	5.1	5.8	5.5	4.9	5.4	5.4
17	3.5	14.4	7.2	14.6	5.8	7.3	3.6	3.0	1.2	8.3	2.6	17.9	17	4.9	6.1	5.1	6.5	5.7	5.0	5.0	5.7	5.5	5.9	5.5	5.5
18	3.5	12.6	8.4	14.3	5.5	3.7	4.9	2.8	1.2	7.1	2.6	17.5	18	5.7	6.0	5.4									

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W. B. No.

DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

DAILY RIVER STAGES
AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE UNITED STATES.

VOLUME XX.
FOR THE YEAR 1922.

BY
H. C. FRANKENFIELD.
METEOROLOGIST.

REFERENCE
DO NOT CIRCULATE

Community Affairs File



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INTRODUCTION.

This volume, containing the daily river stages for 1922, constitutes the twentieth of a series of "Daily River Stages on the Principal Rivers of the United States," the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
 II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
 III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
 Daily Stages at River Gage Stations on the Principal Rivers of the United States.
 IV. 1890 to 1892.
 V. 1893 to 1895.
 VI. 1896 to 1899.
 VII. 1900 to 1904.
 VIII. 1905 and 1906.
 IX. 1907 and 1908.
 X. 1909 and 1910.
 XI. 1911 and 1912.
 XII. 1913 and 1914.
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 XVIII. 1920.
 XIX. 1921.

Volumes I to XII are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

The stations for which gage readings are given in this volume are arranged in accordance with the "Organization of the River and Flood Service," page 8, except that when a river runs through more than one forecast district all of the stations on that stream are arranged consecutively from the source to the mouth of the river.

The index is given alphabetically by gaging stations.

In order that all readings for a given station may be comparable, a table of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This table immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following table:

DISTRICT CENTERS AND TERRITORIES.

Albany, N. Y.....	Drainage area of the Hudson River.
Asheville, N. C.....	Drainage area of the French Broad River.
Atlanta, Ga.....	Drainage area of the Apalachicola River.
Augusta, Ga.....	Drainage area of the Savannah River.
Binghamton, N. Y.....	Drainage area of the Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.....	Drainage area of the Missouri River at and above Bismarck, N. Dak.
Cairo, Ill. ¹	Ohio River below mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo., Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.....	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio ¹	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River, the Little Miami, and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky.
Columbia, S. C. ¹	Drainage area of the Santee River.
Columbus, Ohio.....	Drainage areas of the interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.....	Drainage area of the Merrimac River.
Dallas, Tex.....	Drainage area of the Trinity River above Long Lake.
Davenport, Iowa ²	Mississippi River from below Dubuque to Muscatine, Iowa.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Dayton, Ohio.....	Miami River.
Denver, Colo.....	Drainage area of the Colorado River, except the Gila River; Arkansas River in the State of Col River; Rio Grande above El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.....	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except the upper River and its tributaries from headwaters to and including Wisconsin Rapids, Wis.
Evansville, Ind. ¹	Drainage area of the Ohio River from below Hawesville, Ky., to the mouth of but not including the W
Fort Smith, Ark.....	Drainage area of the Arkansas River from below Wichita, Kans., to Fort Smith, Ark., except the Can
Fort Wayne, Ind.....	Drainage area of the Maumee River.
Fresno, Calif.....	Drainage area of the San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.....	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ²	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines River
Harrisburg, Pa.....	Moines, Iowa.
Hartford, Conn.....	Susquehanna River drainage area, except at and above Binghamton, N. Y.
Houston, Tex.....	Drainage area of the Connecticut River.
Indianapolis, Ind.....	Drainage areas of the Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to
Kansas City, Mo.....	Drainage area of the White River.
Knoxville, Tenn. ¹	Missouri River from the mouth of the Platte River to Lexington, Mo.
La Crosse, Wis. ²	Tennessee River at Knoxville, Tenn., and Holston River.
Lansing, Mich.....	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Little Rock, Ark.....	Grand River from headwaters to and including Grand Ledge, Mich.
Los Angeles, Calif.....	Arkansas River and tributaries below Fort Smith, Ark.; White River of Arkansas.
Louisville, Ky. ¹	Drainage area of the Los Angeles River.
Macon, Ga.....	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannelton, In
Memphis, Tenn. ¹	River.
Meridian, Miss.....	Drainage area of the Altamaha River.
Minneapolis, Minn. ²	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River
Mobile, Ala. ¹	Drainage areas of the Pearl and Pascagoula Rivers.
Montgomery, Ala. ¹	Mississippi River at and above St. Paul, Minn.
Moorhead, Minn.....	Drainage area of the Tombigbee River.
Nashville, Tenn. ¹	Drainage area of the Alabama River.
New Orleans, La. ¹	Drainage area of the Red River of the North.
Oklahoma City, Okla...	Drainage area of the Cumberland River.
Omaha, Nebr.....	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atcha
Parkersburg, W. Va. ¹	Drainage area of the Canadian River to boundary of New Mexico.
Philadelphia, Pa.....	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Phoenix, Ariz.....	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va.; exclud
Pittsburgh, Pa. ¹	Kanawha River.
Portland, Me.....	Delaware River drainage area.
Portland, Ore.....	Drainage area of the Gila River.
Raleigh, N. C.....	Allegheny and Monongahela drainage areas; Ohio River from Pittsburgh, Pa., to Wheeling, W.
Richmond, Va.....	Rivers of Maine.
Sacramento, Calif.....	Columbia River drainage area.
Saginaw, Mich.....	Rivers of central and eastern North Carolina and their tributaries.
St. Louis, Mo. ¹	Drainage area of the James River.
San Antonio, Tex.....	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, Eel, and Los A
Shreveport, La. ¹	Drainage area of the Saginaw River.
Sioux City, Iowa.....	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Missou
Terre Haute, Ind.....	Lexington, Mo., except the Osage River in Kansas; Illinois River; White, Black, and St. Franc
Topeka, Kans.....	State of Missouri.
Vicksburg, Miss. ¹	Drainage areas of the Colorado, Guadalupe, Nueces and San Antonio Rivers of Texas; Rio Grand
Washington, D. C.....	Tex., to mouth.
Wausau, Wis.....	Red River at and above Shreveport, La.
Wichita, Kans.....	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
	Drainage area of the Wabash River, except the White River.
	Drainage areas of the Kansas River and the Osage River in Kansas.
	Mississippi River from the mouth of the White River to Vicksburg, Miss.; Yazoo River.
	Drainage area of the Potomac River.
	Drainage area of the Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
	Drainage area of the Arkansas River from the Colorado-Kansas line to Wichita, Kans.

¹ Forecasts made daily throughout the year.² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Continued.

[Stations taking occasional observations only printed in italics. Reference notes are at the end of this table.]

Station.	Established.	River.	Distance above mouth of river (miles).	Drainage area above station (square miles).	Flood stage (feet).	Highest stage (feet).	Date.	Lowest stage (feet).	Date.	Width of river at low water (feet).	Bankful stage (feet).	Width of river at bankful stage (feet).	Elevation of zero of gage above mean sea level (feet).
MISSISSIPPI DRAINAGE—contd.													
<i>Ohio Basin—Contd.</i>													
Cloverport, Ky.	Dec. 15, 1913	Ohio	261	97,860	40	55.8	Feb. —, 1884	0.7	Nov. 23, 1914 c.	2,000	40	3,000	352.2
Evansville, Ind.	Apr. 22, 1873	Ohio	181	107,100	35	48.4	Apr. 5, 1913	-0.3	Nov. 7, 1895 c.	2,250	42	3,300	329.1
Henderson, Ky.	Oct. 14, 1909	Ohio	170	107,700	33	47.9	Apr. 5, 1913	1.0	Oct. 14, 1904	2,150	33	2,680	327.4
Dam No. 48, Cypress, Ind.	Jan. 1, 1922	Ohio	164		42					2,454	18	2,454	318.0
Mount Vernon, Ind.	—, 1888	Ohio	146	129,200	35	52.9	Apr. 5, 1913	-0.2	Nov. 26, 1895	1,600	38	3,000	315.4
Shawneetown, Ill.	June 1, 1910	Ohio	120	143,560	35	59.5	Apr. 5, 1913	0.0	Oct. —, 1856	2,250	33	2,600	309.3
Paducah, Ky.	May 1, 1873	Ohio	44	202,700	43	54.3	Feb. 23, 1884 c.	-0.7	Oct. 30, 1895 c.	2,650	39	4,000	286.3
Calro, Ill.	June 1, 1871	Ohio	2	916,600	45	54.7	Apr. 4, 1913 c.	-1.0	Dec. 24, 1871	2,500	42	3,000	270.4
Beaver Falls, Pa.	Apr. 5, 1908	Beaver	3	3,007	11	17.4	Mar. 27, 1913	0.6	(f)	490	15	550	731.2
Sharon, Pa.	Dec. 16, 1911	Shenango	28	609	9	18.6	Mar. 26, 1913	1.8	(g)	155	9	175	840.0
Zanesville, Ohio	June 4, 1887	Muskingum	76	6,474	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895 c.	350	33	520	665.3
McConnelsville, Ohio	Jan. 1, 1911	Muskingum	48	7,410	22	49.1	Mar. 27, 1913	2.9	Aug. 17, 1910	332	21	580	635.0
Beverly, Ohio	Jan. 16, 1905	Muskingum	25	7,940	25	48.5	Mar. 28, 1913	2.6	Aug. 22, 1910	550	24	610	602.6
Marietta, Ohio	May 1, 1914	Muskingum	0.2	8,040	38	59.9	Mar. 29, 1913	2.0	(g)	500	36	650	567.3
Dover, Ohio	Jan. 1, 1905	Tuscarawas	47	1,410	9	16.1	Mar. 28, 1913	-1.7	Dec. 6, 1913	350	7	400	802.0
Norris Point, Ohio	Mar. 1, 1914	Tuscarawas	31	2,360	8	17.5	Mar. 28, 1913	0.0	July 21, 1914 c.	300	11	340	818.0
Coshocton, Ohio	Dec. 16, 1904	Tuscarawas	0	4,840	8	27.5	Mar. 26, 1913	-1.1	Dec. —, 1904	300	8	325	730.5
Uhrichsville, Ohio	July 20, 1922	Stillwater Creek	6	307						100			
Walhonding, Ohio	Oct. 15, 1913	Walhonding	14	1,480	8	26.0	Mar. 25, 1913	0.0	Dec. 3, 1914 c.	75	8	335	811.1
Glenville, W. Va.	Sept. 10, 1900	Little Kanawha	103	385	23	32.9	Mar. 13, 1913	-0.9	Nov. 10, 1908 c.	75	22	200	693.5
Creston, W. Va.	Sept. 10, 1900	Little Kanawha	48	1,347	20	32.0	Mar. 14, 1913	-3.0	Nov. 4, 1906	200	15	300	621.7
Athens, Ohio	Feb. 16, 1916	Hocking	30	944	17	26.0	Mar. 14, 1907	2.6	Aug. 22, 1918 c.	107	17	137	615.6
Ivanhoe, Va.	Oct. 15, 1916	Kanawha-New	310	1,360	15	35.4	July 16, 1916	0.0	Aug. 1, 1917 c.	280	17	800	1,941.9
Radford, Va.	Jan. 26, 1895	Kanawha-New	250	2,720	14	34.0	Sept. 13, 1878	-2.0	Nov. 3, 1904 c.	580	14	650	1,713.7
Narrows, Va.	Mar. 7, 1914	Kanawha-New	206	3,665	20	33.1	Sept. 13, 1878	1.5	Aug. 29, 1917	500	14	700	1,518.4
Hinton, W. Va.	June 4, 1887	Kanawha-New	156	6,160	14	20.2	Sept. 13, 1878	0.5	(g)	600	14	700	1,365.2
Kanawha Falls, W. Va.	Jan. 1, 1914	Kanawha	95	8,370	25	37.8	Sept. 14, 1878	-0.9	Oct. 29, 1921	650	25	1,040	618.7
Charleston, W. Va.	June 4, 1887	Kanawha	58	10,490	30	46.9	Sept. 29, 1801	-0.1	Sept. 15, 1881	600	30	700	554.5
Renick, W. Va.	Dec. 1, 1915	Greenbrier	74	680	17	21.6	—, 1889	0.0	Aug. 30, 1917 c.	290	17	330	1,853.4
Camden-on-Gauley, W. Va.	Dec. 5, 1901	Gauley	71	236	20	21.7	Dec. 15, 1901	-1.8	(g)	160	20	215	2,005.7
Gassaway, W. Va.	Apr. 1, 1918	Elk	95	578	24	44.0	Mar. 13, 1918	1.0	Aug. 24, 1911	160	24	380	796.3
Clay, W. Va.	Dec. 1, 1915	Elk	51	1,010	18	32.4	Mar. 14, 1918	0.3	Sept. 26, 1917 c.	190	18	270	670.6
Sissonville, W. Va.	Nov. 1, 1916	Pocataligo	25	207	33.0	33.0	June 27, 1910	1.0	Sept. 7, 1913		30		
Logan, W. Va.	Nov. 1, 1915	Guyandotte	76	890	20	27.0	Jan. 28, 1918	1.6	Nov. 6, 1915	135	20	240	638.4
Lock No. 3, Louisa, Ky.	Nov. 1, 1912	Big Sandy	27	3,766	50	48.4	Apr. 3, 1908	0.7	Sept. 10, 1887	200	60	450	516.8
Pikeville, Ky.	June 1, 1907	Big Sandy, Levisa Fork	88	1,202	35	50.0	Jan. 28, 1918	0.0	July —, 1898	222	40	394	633.4
Williamson, W. Va.	Nov. 1, 1901	Big Sandy, Tug Fork	57	868	38	38.1	Jan. 29, 1918	-0.8	Oct. 2, 1908 c.	200	40	360	620.6
Larue, Ohio	Mar. 10, 1916	Scioto	164	255	11	17.8	Mar. 26, 1913	2.0	July 11, 1919 c.	85	9	120	910.2
Prospect, Ohio	Nov. 16, 1904	Scioto	147	554	10	21.1	Mar. 26, 1913	0.2	Oct. 2, 1910 c.	150	8	150	891.7
Bellpoint, Ohio	June 1, 1914	Scioto	134	770	9	20.9	Mar. 25, 1913	1.2	Aug. 22, 1921 c.	200	6	273	840.0
Dublin, Ohio	Apr. 1, 1916	Scioto	123	1,020	8	15.5	Mar. 26, 1913 f.	-1.9	Jan. 31, 1918 c.	280	6	370	758.0
Columbus, Ohio	July 1, 1897	Scioto	110	1,610	22	24.2	Mar. 25, 1913	* -0.3	Oct. 6, 1914	522	24	578	700.0
Circleville, Ohio	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913	-2.0	Aug. 8, 1917 c.	425	7	450	647.0
Chillicothe, Ohio	June 5, 1907	Scioto	58	3,850	16	39.8	Mar. 26, 1913	1.0	Oct. 13, 1917 c.	200	15	300	594.0
Delaware, Ohio	June 16, 1910	Olentangy	25	415	9	25.5	Mar. 25, 1913	-0.5	Aug. 31, 1921 c.	180	9	253	848.6
Kings Mills, Ohio	July 1, 1912	Little Miami	25	793	17	33.7	Mar. 26, 1913	0.5	(g)	175	17	320	586.8
Farmers, Ky.	Oct. 5, 1904	Licking	172	768	25	31.1	Feb. 9, 1918	0.5	(g)	135	22	314	635.7
Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	42.8	Aug. 2, 1854	0.0	Sept. 12, 1887 c.	252	26	300	512.2
Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork	46	648	20	35.0	Feb. 6, 1884	0.0	(g)	185	20	300	683.8
Sidney, Ohio	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913	0.2	Sept. 18, 1917 c.	110	12	260	924.7
Piqua, Ohio	Nov. 16, 1904	Miami	119	850	17	28.8	Mar. 25, 1913	1.4	Dec. 16, 1922 c.	150	17	350	844.0
Dayton, Ohio	Oct. 1, 1892	Miami	83	2,525	21	31.7	Mar. 25, 1913	0.7	Nov. 8, 1922 c.	350	21	600	721.0
Hamilton, Ohio	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913	0.3	Oct. 24, 1920 c.	400	17	500	560.0
New Baltimore, Ohio	Jan. 14, 1916	Miami	24	3,836	25	38.0	Mar. 26, 1913			340	20	483	504.0
Springfield, Ohio	Dec. 1, 1913	Mad.	27	460	10	19.2	Mar. 25, 1913	0.9	Aug. 20, 1914	50	10	100	887.8
Pleasant Hill, Ohio	Mar. 1, 1922	Stillwater	22	453	13	17.5	Mar. 25, 1913	1.1	Sept. 30, 1922	200	13	250	846.6
West Milton, Ohio	Dec. 1, 1913	Stillwater	18	592	10	28.0	Mar. 25, 1913	0.2	Oct. 4, 1914 c.	110	10	200	813.0
Beattyville, Ky.	May 1, 1902	Kentucky	255	1,654	30	46.3	Feb. 23, 1890	-2.6	June 6, 1916 c.	400	30	800	626.2
Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.6	Mar. 27, 1913 c.	4.7	Nov. 24, 1912 c.	350	25	450	505.4
Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	Feb. —, 1878	0.4	(g)	400	30	500	464.8
Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919 c.	290	40	520	402.8
Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913 c.	5.0	Sept. 17, 1902 c.	450	44	600	373.6
Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,600	34	47.5	Jan. 19, 1913 c.	3.7	July 28, 1902	700	40	1,000	343.5
Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	36.5	Jan. 3, 1919			112	20	250	
Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	12	20.0	Mar. 26, 1913	0.7	June 23, 1913 c.	190	10	200	790.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	6,200	11	32.9	Mar. 26, 1913	0.3	July 9, 1895 c.	450	11	500	501.1
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	31.2	Mar. 27, 1913	-2.0	Feb. 6, 1892	540	16	662	447.3
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 26, 1913	-1.0	Dec. 1, 1922 c.		14	782	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28,590	16	31.0	Mar. 30, 1913	-0.2	Nov. 7, 1895 c.	742	19	1,680	372.1
Decker, Ind.	Dec. 1, 1913	White	18	10,717	18	28.8	Mar. 29, 1913	0.0	Nov. 23, 1913	600	16	675	387.4

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued.

1922	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1922	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
GREEN RIVER—LOCK No. 4, WOODBURY, KY. (LOWER GAGE).													GREEN—BIG BARREN RIVER—BOWLING GREEN, KY.												
[Flood stage, 33 feet.]													[Flood stage, 20 feet.]												
1.....	13.3	9.7	24.3	26.3	20.2	8.7	10.3	7.2	7.3	6.6	5.9	6.3	1.....			5.0									
2.....	12.2	9.7	31.8	31.0	15.8	8.3	9.1	7.2	7.0	6.5	5.9	6.3	2.....			19.5									
3.....	11.3	9.9	36.2	33.0	16.8	8.0	10.6	7.2	6.8	6.3	6.0	6.4	3.....			25.3		5.0		5.0					
4.....	10.7	10.0	39.0	32.3	18.3	7.9	17.8	7.1	6.7	6.3	6.0	6.4	4.....												
5.....	11.0	9.8	40.7	28.3	17.3	7.8	21.8	6.9	6.9	6.2	6.0	7.8	5.....							14.3					
6.....	13.0	9.7	40.3	22.3	17.4	7.7	18.9	6.9	7.6	6.1	6.0	11.1	6.....												
7.....	17.5	9.8	37.7	19.7	18.4	7.7	14.0	6.8	7.3	6.1	6.0	11.8	7.....												
8.....	18.4	9.7	34.1	18.8	17.2	7.6	15.0	6.7	7.0	6.0	6.0	12.8	8.....							5.0					
9.....	17.0	9.4	31.4	17.0	14.9	7.8	14.5	6.6	6.8	6.0	6.0	15.7	9.....												
10.....	15.3	9.2	32.2	16.4	13.0	9.3	11.9	6.3	6.7	6.0	6.0	16.1	10.....												
11.....	19.4	9.1	35.5	16.5	11.7	9.2	10.5	6.3	6.9	6.4	6.0	10.1	11.....	4.0			13.0								
12.....	27.0	9.0	38.2	18.6	10.8	9.4	9.5	6.3	7.2	6.6	6.0	14.0	12.....									2.3			
13.....	29.7	8.9	39.8	18.4	16.5	9.1	9.6	6.3	7.0	6.5	6.0	11.8	13.....					5.0							
14.....	29.5	8.8	38.4	17.1	14.0	8.6	9.9	6.3	7.0	6.4	6.0	10.4	14.....												
15.....	26.2	8.8	39.0	16.4	12.4	8.1	9.0	6.2	6.7	6.2	6.3	12.0	15.....			14.0								3.0	
16.....	20.2	8.9	39.7	16.2	11.7	7.7	8.6	6.2	6.5	6.1	6.4	15.7	16.....			20.0									
17.....	16.5	9.7	40.4	16.5	10.3	7.4	7.9	6.2	6.2	6.1	6.4	19.7	17.....								2.6				
18.....	14.5	10.8	40.1	15.0	9.9	7.4	7.7	6.3	6.2	6.0	6.4	22.8	18.....												
19.....	13.6	14.4	38.1	13.6	10.8	7.5	7.7	6.3	6.2	6.0	6.5	21.9	19.....												
20.....	13.2	24.3	34.9	12.4	10.5	7.7	8.0	6.4	6.2	6.0	6.5	17.6	20.....												
21.....	15.3	33.4	31.3	11.5	9.9	8.9	8.0	6.4	6.7	6.0	6.5	13.4	21.....												
22.....	10.6	36.6	28.0	10.9	9.4	9.2	7.7	6.4	6.8	5.9	6.5	12.7	22.....			18.0						3.8			
23.....	15.7	38.4	24.5	10.3	9.0	8.7	7.5	6.3	6.5	5.9	6.5	10.3	23.....												
24.....	14.1	39.0	21.1	10.0	8.7	7.9	9.8	7.3	6.3	5.8	6.4	9.8	24.....												
25.....	12.8	38.3	18.8	9.7	8.9	7.5	10.4	7.5	5.9	5.8	6.3	9.2	25.....								2.0				
26.....	11.9	35.8	16.5	9.6	16.2	7.2	9.9	7.5	5.9	5.9	6.3	8.8	26.....					3.6							
27.....	11.3	30.8	20.9	9.5	19.1	6.9	8.5	10.3	5.9	5.9	6.3	9.2	27.....			8.0									
28.....	11.0	26.0	23.6	11.8	15.2	7.1	7.6	17.4	5.9	6.0	6.4	9.2	28.....												
29.....	10.7	20.4	20.4	18.1	12.0	12.5	7.3	13.7	6.2	6.0	6.3	11.6	29.....						3.0						
30.....	10.3	18.3	21.9	10.2	11.1	7.1	9.3	6.6	6.0	6.3	15.2	30.....						7.0							
31.....	9.9	19.0					7.1	8.0	6.0	6.0	14.6	31.....													
Mean.	15.6	17.4	31.5	17.6	13.4	8.3	10.4	7.5	6.6	6.1	6.2	12.9	Mean.												
GREEN RIVER—LOCK NO. 2, RUMSEY, KY. (LOWER GAGE).													WABASH RIVER—BLUFFTON, IND.												
[Flood stage, 34 feet.]													[Flood stage, 12 feet.]												
1.....	34.1	9.0	35.1	32.4	20.0	8.8	10.1	6.9	7.4	6.5	6.3	6.5	1.....	2.3	b 1.6	2.5	9.5	2.6	2.8						
2.....	32.9	9.0	34.2	32.1	18.2	8.2	9.5	6.9	7.0	6.6	6.3	6.5	2.....	2.3	4.7	2.3	10.5	2.6	2.6					1.1	
3.....	31.2	9.3	33.5	32.5	16.8	7.8	9.0	6.9	6.8	6.7	6.3	6.5	3.....	c 2.3	5.0	2.0	9.5	2.6	2.6					1.0	
4.....	28.6	9.5	33.4	33.2	18.8	7.6	10.9	6.9	6.8	6.7	6.3	6.5	4.....	2.4	5.3	2.0	6.9	3.9	2.6					1.0	
5.....	25.4	9.6	33.6	33.7	21.0	7.5	15.0	6.9	6.8	6.5	6.3	8.7	5.....	4.2	4.0	2.0	4.6	4.1	2.5					1.1	
6.....	20.9	10.0	34.0	33.6	20.1	7.4	17.6	6.9	7.1	6.4	6.3	10.5	6.....	5.5	3.0	1.9	3.5	3.2	2.5					1.0	
7.....	16.8	10.2	34.6	32.3	21.5	7.4	16.0	6.8	7.0	6.4	6.3	12.0	7.....	5.6	2.6	2.3	3.3	2.8	2.3					1.1	
8.....	16.2	9.9	35.2	30.5	20.0	7.3	13.0	6.7	7.0	6.4	6.3	13.2	8.....	3.2	2.1	3.7	4.7	2.5	2.2					1.0	
9.....	16.2	9.7	35.3	28.6	17.7	7.3	14.5	6.7	6.9	6.4	6.3	14.2	9.....	3.5	1.9	3.2	6.5	2.5	2.1					1.2	
10.....	15.2	9.5	36.0	20.7	14.8	7.5	14.0	6.7	6.8	7.0	6.3	15.4	10.....	2.5	1.9	2.8	7.4	2.5	2.0					1.1	
11.....	15.5	9.1	36.3	25.2	12.5	8.0	12.4	6.6	6.7	7.0	6.3	16.2	11.....	2.4	2.0	6.0	9.3	2.5	2.0					1.1	
12.....	20.7	8.9	36.3	24.4	11.0	8.0	10.8	6.5	6.7	7.0	6.3	14.2	12.....	2.3	2.2	6.0	9.0	2.5	2.0					1.1	
13.....	24.7	8.8	36.4	23.5	10.8	8.0	9.8	6.5	6.8	7.0	6.3	12.4	13.....	c 2.3	2.1	5.5	9.5	3.0	2.0					1.1	
14.....	26.7	8.7	36.7	22.2	11.9	8.7	9.3	6.5	6.8	6.9	6.3	10.4	14.....	2.0	2.1	4.5	9.1	2.5	2.1					1.1	
15.....	27.8	8.4	38.0	21.2	12.1	8.0	9.0	6.5	6.8	6.6	6.4	10.5	15.....	1.9	1.9	6.9	9.0	2.4	2.1					1.1	
16.....	27.2	8.3	38.8	20.3	11.2	7.8	8.4	6.5	6.7	6.5	6.5	10.7	16.....	1.9	1.6	7.6	10.0	2.4	2.4					1.1	
17.....	23.5	8.3	39.3	21.0	10.2	7.8	8.1	6.4	6.7	6.6	6.5	14.7	17.....	(a) 1.6	b 1.5	7.7	10.9	2.3	2.3					1.1	
18.....	17.4	8.8	39.7	22.5	9.3	7.5	7.7	6.4	6.6	6.6	6.5	17.4	18.....	1.6	1.5	5.7	11.3	2.3	2.3					1.1	
19.....	15.0	11.0	40.2	22.8	9.0	7.4	7.5	6.4	6.6	6.5	6.9	18.3	19.....	2.3	1.6	3.3	13.2	3.3	2.2					1.1	
20.....	13.0	14.8	40.6	23.3	9.3	7.4	7.4	6.4	6.5	6.5	6.9	19.3	20.....	3.5	3.0	3.3	12.3	4.6	2.2					1.1	
21.....	11.7	24.1	40.8	23.9	9.2	7.6	7.3	6.4	6.5	6.4	6.8	18.5	21.....	2.8	3.2	4.0	10.0	5.3	2.2					1.1	
22.....	13.3	28.3	40.8	24.6	8.8	8.0	7.3	6.4	6.7	6.4	6.7	15.1	22.....	2.1	4.5	3.3	7.3	4.5	2.2					1.1	
23.....	14.0	31.0	40.6	24.9	8.5	8.3	7.3	6.4	6.7	6.4	6.6	12.2	23.....	b 2.1	5.3	3.0	5.1	3.0	2.2					1.0	
24.....	13.3	32.8	40.2	24.7	8.2	8.0	8.5	6.8	6.6	6.4	6.6	11.0	24.....	b 2.0	6.8	2.8	3.4	2.7	2.1					1.0	
25.....	11.0	34.6	38.3	22.9	10.5	7.3	9.7	7.2	6.5	6.3	6.6	10.4	25.....	b 2.0	6.2	2.7	3.3	4.8	2.1					1.0	
26.....	11.0	35.4	37.5	21.2	13.8	7.0	9.1	7.0	6.4	6.3	6.5	8.8	26.....	b 1.9	3.5	2.8	3.2	6.5	2.1					1.0	
27.....	11.0	34.6	38.9	20.0	17.2	7.0	8.0	7.0	6.4	6.3	6.5	8.5	27.....	(a) 2.9	5.5	3.0	6.6	2.1						1.1	
28.....	12.3	35.6	38.9	20.0	17.2	7.0	8.0	7.0	6.4	6.3															

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued.

1922.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1922.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
WABASH RIVER—LAFAYETTE, IND.													WABASH RIVER—VINCENNES, IND.												
[Flood stage, 11 feet.]													[Flood stage, 14 feet.]												
1.....	3.2	c2.6	3.6	20.5	4.8	3.7						1.2	1.....	7.6	2.6	7.4	15.5	13.7	5.6					d-1.0	
2.....	(a)	c4.7	2.9	21.0	4.8	3.0						1.2	2.....	6.8	3.8	6.6	16.1	11.2	5.4					d-1.0	
3.....	(a)	9.1	2.9	19.7	4.5	3.0						1.2	3.....	5.4	4.6	5.8	16.6	10.2	4.8					d-1.0	
4.....	3.0	7.0	2.9	17.2	4.5	2.4						1.2	4.....	5.0	4.8	4.8	17.4	10.2	4.5					d-1.0	
5.....	6.2	6.1	3.2	14.6	4.1	2.4						1.3	5.....	5.0	5.6	3.8	18.5	9.2	4.4					d-1.0	
6.....	8.7	5.0	2.9	11.9	5.6	2.0						1.3	6.....	4.8	6.0	3.5	19.6	8.4	4.2					d-1.0	
7.....	8.4	4.3	3.4	10.0	5.0	2.0						1.3	7.....	6.0	6.8	3.8	20.3	7.5	4.0					d-1.0	
8.....	7.9	3.7	4.8	9.5	4.6	2.0						1.3	8.....	7.8	6.2	4.1	20.4	6.8	4.1					d-0.8	
9.....	5.6	3.2	5.2	11.6	4.0	2.0						1.5	9.....	8.1	5.5	4.5	20.3	6.5	4.1					d1.0	
10.....	4.7	3.1	5.2	13.3	3.7	2.0						1.5	10.....	7.9	4.8	4.9	20.2	6.1	3.8					d1.2	
11.....	4.2	3.1	5.4	13.3	3.5	1.7	1.8		1.0	2.1		1.5	11.....	7.5	4.6	5.2	19.9	5.9	3.6					d1.2	
12.....	3.6	3.0	11.4	16.7	3.2	1.7						1.5	12.....	6.5	3.8	5.3	20.2	5.5	3.4					d1.0	
13.....	3.6	3.0	12.9	18.7	3.6	1.7						1.4	13.....	5.4	3.6	5.5	20.3	5.2	3.0					d0.8	
14.....	3.4	2.6	11.0	16.9	3.4	2.0						1.4	14.....	4.8	3.5	7.3	20.3	4.9	2.6					d0.8	
15.....	3.0	2.2	15.5	16.0	3.9	1.8						1.4	15.....	4.5	3.4	11.8	20.7	4.8	2.8					d0.8	
16.....	3.0	c2.4	17.4	17.5	3.7	1.8						1.3	16.....	4.1	3.2	13.4	21.1	4.5	2.4					d0.8	
17.....	(a)	c3.3	16.7	17.8	3.2	1.8						1.3	17.....	3.8	3.0	15.8	21.5	4.4	2.3					d0.6	
18.....	(a)	c3.6	13.8	20.7	3.2	1.8						1.0	18.....	3.5	3.0	16.5	22.2	4.2	2.2					d0.6	
19.....	c2.4	c3.6	10.1	20.3	3.2	1.8						1.0	19.....	3.5	2.8	17.9	22.3	4.4	2.0					d0.6	
20.....	(a)	2.5	9.7	19.8	3.2	1.8						1.2	20.....	3.3	2.7	18.6	22.6	4.4	2.0					d0.6	
21.....	(a)	2.5	10.4	18.5	2.9	1.7						1.2	21.....	3.1	2.6	18.8	22.8	4.3	1.9					d3.6	
22.....	(a)	4.0	9.8	16.0	4.0	1.7						1.3	22.....	2.8	2.4	18.6	22.9	4.2	1.8					d0.6	
23.....	(a)	6.5	8.6	12.6	4.8	1.5						1.3	23.....	2.8	2.5	18.0	22.6	4.0	1.7					d0.6	
24.....	(a)	8.6	7.9	10.0	4.2	1.5	1.2					1.3	24.....	2.7	3.0	17.5	21.9	3.9	1.7	2.4				d0.6	
25.....	(a)	8.6	7.6	8.6	3.7	1.5						1.4	25.....	2.6	5.1	16.9	21.2	3.9	1.6					d0.6	
26.....	(a)	6.7	6.8	7.6	3.7	1.5						1.4	26.....	2.5	7.0	16.2	20.4	4.8	1.6					d0.4	
27.....	(a)	5.2	7.3	7.1	4.2	1.5						1.4	27.....	2.4	7.4	15.8	19.2	6.0	1.6					d0.4	
28.....	(a)	4.3	10.6	6.5	4.8	1.6						1.6	28.....	3.0	7.6	14.8	18.3	6.1	1.5					d1.2	
29.....	(a)		13.0	5.9	5.2	2.2						2.6	29.....	2.8		14.2	16.9	6.1	1.5					d1.5	
30.....	(a)		13.0	5.4	4.7	1.7						4.5	30.....	2.6		13.6	15.5	5.9	1.5	1.4				d1.8	
31.....	(a)		16.5		4.4							4.3	31.....	2.6		14.7		5.7						d2.0	
Mean.....	4.7	8.8	14.2	4.1	2.0								Mean.....	4.6	4.4	11.1	19.9	6.2	2.9						d0.4
WABASH RIVER—TERRE HAUTE, IND.													WABASH RIVER—MOUNT CARMEL, ILL.												
[Flood stage, 16 feet.]													[Flood stage, 16 feet.]												
1.....	4.9	b2.1	5.6	17.9	8.6	5.3	1.5	0.8	0.3	0.0	0.1	0.3	1.....	20.5	4.3	8.5	20.8	18.3	7.4	2.5	2.2	1.6	1.0	1.0	1.3
2.....	4.2	b4.3	4.5	19.5	7.5	4.6	1.5	0.7	0.3	0.0	0.1	0.3	2.....	20.0	6.4	7.7	21.4	16.1	6.9	2.6	2.1	1.5	0.9	1.1	1.3
3.....	3.7	b5.0	4.0	20.4	7.1	4.0	1.5	0.7	0.2	0.0	0.1	0.3	3.....	19.1	8.0	6.9	22.0	14.7	6.3	2.9	2.2	1.5	0.9	1.1	1.3
4.....	3.5	(a)	3.6	21.4	7.0	3.4	1.5	0.6	0.2	0.0	0.2	0.3	4.....	17.8	8.8	6.4	22.5	15.1	5.7	3.0	2.1	1.3	1.0	1.1	1.4
5.....	5.5	8.4	3.6	21.2	6.9	3.0	1.4	0.6	0.2	0.0	0.3	0.3	5.....	16.2	9.6	6.1	23.0	14.7	5.1	3.0	2.3	1.3	0.9	1.1	1.5
6.....	8.4	7.1	3.4	20.1	6.8	2.7	1.3	0.5	0.3	0.0	0.4	0.3	6.....	13.5	10.4	5.8	23.4	14.4	4.7	2.7	2.2	1.3	0.9	1.1	1.7
7.....	9.6	6.0	3.9	19.0	6.8	2.6	1.2	0.5	0.2	0.0	0.4	0.5	7.....	12.5	10.6	5.8	23.7	13.9	4.4	2.5	1.8	1.3	0.9	1.1	1.8
8.....	9.8	4.7	4.7	18.2	6.9	2.6	1.1	0.5	0.2	0.2	0.3	1.1	8.....	13.1	9.8	6.4	23.8	13.3	4.5	2.6	1.7	1.2	0.9	1.2	2.5
9.....	9.0	4.3	4.9	18.7	6.5	3.0	1.1	0.5	0.2	0.2	0.3	0.9	9.....	13.5	8.7	6.7	23.7	12.4	4.9	2.6	1.6	1.2	1.2	1.2	3.4
10.....	7.5	3.7	5.7	18.9	5.5	2.4	1.1	0.4	0.2	0.2	0.3	0.7	10.....	13.5	7.7	7.0	23.4	10.9	5.2	2.4	1.6	1.2	1.3	1.2	3.8
11.....	6.5	3.4	5.9	19.2	5.6	2.2	2.0	0.5	0.2	0.3	0.3	0.6	11.....	12.7	7.0	7.5	23.1	9.5	4.9	2.5	1.6	1.2	1.2	1.2	3.9
12.....	5.6	3.2	6.8	19.2	5.1	2.0	6.1	0.5	0.2	0.5	0.2	0.6	12.....	11.5	6.5	7.8	22.8	8.6	4.3	2.5	1.6	1.2	1.2	1.2	3.7
13.....	4.8	3.2	9.1	19.2	5.0	2.3	5.5	0.5	0.2	0.7	0.2	0.6	13.....	10.1	6.1	7.9	22.9	8.0	4.0	3.1	1.5	1.2	1.2	1.1	3.5
14.....	4.0	2.9	12.5	19.5	5.0	2.1	5.1	0.4	0.2	0.9	0.2	0.6	14.....	9.1	5.9	8.7	23.1	7.6	3.9	4.3	1.6	1.1	1.3	1.1	3.2
15.....	3.8	2.7	17.0	21.4	4.7	1.9	4.5	0.4	0.2	0.8	0.4	0.4	15.....	8.2	5.7	13.6	23.6	7.2	3.9	4.8	1.6	1.1	1.2	1.1	2.9
16.....	3.4	2.3	19.2	22.2	4.7	1.9	3.7	0.4	0.2	0.7	0.4	0.4	16.....	7.3	5.5	16.8	24.1	6.8	3.7	4.6	1.5	1.1	1.4	1.2	2.4
17.....	3.0	1.8	19.2	22.6	4.8	1.8	3.2	0.4	0.2	0.6	0.4	0.3	17.....	6.6	5.2	18.1	24.6	6.5	3.5	4.2	1.5	1.1	1.5	1.1	2.1
18.....	3.0	2.0	18.7	23.0	4.6	1.7	2.7	0.4	0.2	0.5	0.4	0.2	18.....	6.2	4.7	19.4	25.0	6.4	3.4	3.9	1.5	1.0	1.5	1.2	e1.5
19.....	3.0	2.3	18.2	24.4	4.5	1.5	2.4	0.3	0.2	0.4	0.5	0.2	19.....	5.9	4.4	21.2	25.3	6.3	3.2	3.7	1.5	1.1	1.5	1.2	e1.5
20.....	2.8	1.8	18.2	23.5	4.4	1.4	2.2	0.3	0.2	0.3	0.5	0.2	20.....	5.9	4.2	22.5	25.4	6.3	3.1	3.4	1.5	1.2	1.3	1.3	e1.5
21.....	2.5	2.2	17.7	22.4	4.3	1.4	1.9	0.3	0.2	0.3	0.4	0.2	21.....	5.9	4.3	23.5	25.6	6.3	3.0	3.2	1.5	1.2	1.3	1.3	1.2
22.....	(a)	2.4	16.9	21.2	4.2	1.3	1.7	0.5	0.2	0.3	0.4	0.2	22.....	5.9	4.4	24.0	25.8	5.9	2.9	3.0	1.5	1.2	1.3	1.3	1.1
23.....	(a)	4.7	16.4	20.0	4.5	1.3	1.5	0.4	0.1	0.3	0.4	0.2	23.....	5.5	4.4	24.1	26.0	5.4	2.9	2.9	1.5	1.1	1.2	1.3	1.2
24.....	(a)	7.0	15.5	18.9	5.0	1.2	1.3	0.5	0.1	0.3	0.4	0.2	24.....	4.0	5.2	23.8	25.8	5.4	2.8	3.1	1.6	1.2	1.2	1.3	1.6
25.....	(a)	8.7	14.4	17.7	5.5	1.1	1.1	0.5	0.0	0.3	0.3	0.2	25.....	c3.6	6.8	23.4	25.4	5.6							

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Rocky Mount, N. C.	5	96	129	Wenatchee, Wash.	14	112	258
Rogersville, Tenn.	9	96	191	West Milton, Ohio	8	112	178
Rome, Ga.	6	96	142	West Newton, Pa.	7	112	158
Rosenberg, Tex.	12	96	211	West Point, Ga.	6	112	138
Roswell, N. Mex.	13	96	245	Wetumpka, Ala.	6	112	141
Rowlesburg, W. Va.	7	96	158	Whalen, Wyo.	12	112
Sacramento, Calif.	13	96	253	Whitecliffs, Ark.	11	112	222
Saginaw, Mich.	6	97	149	White River Junction, Vt.	5	113	117
St. Charles, Mo.	11	97	230	Wichita, Kans.	10	113	210
St. John, Calif.	13	97	254	Wichita, Kans. (Midian Shrine boathouse)	11	113
St. Joseph, Mo.	11	97	229	Wickenburg, Ariz.	13	113	250
St. Louis, Mo.	10	97	199	Wilkes-Barre, Pa.	6	113	124
St. Marys, W. Va.	7	98	160	Williams, Ind.	9	113	182
St. Paul, Minn.	9	98	194	Williamsburg, Ky.	9	113	183
Salem, Oreg.	14	98	261	Williamson, W. Va.	8	114	174
Salida, Colo.	10	98	Williamsport, Pa.	5	114	126
Saltair, Utah	13	98	251	Williamston, Mich.	7	114	154
Saltburg, Pa.	7	98	157	Williston, N. Dak.	11	114	226
San Antonio, Tex.	13	99	244	Winona, Minn.	9	114	195
San Marcial, N. Mex.	13	99	Wisconsin Rapids, Wis.	10	114	204
Santa Rosa, N. Mex.	13	99	Wolf Point, Mont.	11	114	226
Sapinero, Colo.	13	99	248	Woodbury, Ga.	6	115	137
Savannah, Tenn.	9	99	189	Woodward, Okla.	11	115	216
Savanna, Kans.	12	99	Wyandotte, Okla.	11	115	214
Schenectady, N. Y.	5	100	120	Yankton, S. Dak.	11	115	227
Schoharie Junction, N. Y.	5	100	121	Yazoo City, Miss.	11	115	220
Sedgwick, Kans.	10	100	212	Yonkers, Okla.	11	115	214
Sellingsgrove, Pa.	5	100	124	Yuma, Ariz.	13	115	247
Selma, Ala.	6	100	140	Zanesville, Ohio	8	116	168

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE UNITED STATES

VOLUME XXVI
FOR THE YEAR 1928

REFERENCE
DO NOT CIRCULATE

Community Affairs File

BY
H. C. FRANKENFIELD
PRINCIPAL METEOROLOGIST

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INTRODUCTION

This volume, containing the daily river stages for 1928, constitutes the twenty-sixth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
- Daily Stages at River Gage Stations on the Principal Rivers of the United States.
- IV. 1890 to 1892.
- V. 1893 to 1895.
- VI. 1896 to 1899.
- VII. 1900 to 1904.
- VIII. 1905 and 1906.
- IX. 1907 and 1908.
- X. 1909 and 1910.
- XI. 1911 and 1912.
- XII. 1913 and 1914.
- XIII. 1915.
- XIV. 1916.
- XV. 1917.
- XVI. 1918.
- XVII. 1919.
- XVIII. 1920.
- XIX. 1921.
- XX. 1922.
- XXI. 1923.
- XXII. 1924.
- XXIII. 1925.
- XXIV. 1926.
- XXV. 1927.

Volumes I to XIV are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

In order that all readings for a given station may be comparable, a list of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This list immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following tabulation:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.....	Hudson River system.
Atlanta, Ga.....	Apalachicola River system.
Augusta, Ga.....	Savannah River.
Binghamton, N. Y....	Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.....	Missouri River at and above Bismarck, N. Dak.
Brownsville, Tex.....	Rio Grande below El Paso, Tex.
Cairo, Ill. ¹	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.....	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ ..	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio ¹	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River; the Little Miami and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky River.
Columbia, S. C. ²	Santee River system.
Columbus, Ohio.....	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.....	Merrimac River.
Dallas, Tex.....	Trinity River above Long Lake, Tex.
Davenport, Iowa ²	Mississippi River from below Dubuque to Muscatine, Iowa.
Dayton, Ohio.....	Miami River.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Denver, Colo.-----	Colorado River, except the Gila River; Arkansas River in the State of Colorado, Pecos River, Rio Grande to El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa.-----	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa. ² -----	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except the upper Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids, Wis.
Evansville, Ind. ¹ -----	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.-----	Arkansas and Neosho Rivers from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River; Verdigris River.
Fort Wayne, Ind.-----	Maumee River.
Fresno, Calif.-----	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.-----	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ² -----	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines River east of Des Moines, Iowa.
Harrisburg, Pa.-----	Susquehanna River, except at and above Binghamton, N. Y.
Hartford, Conn.-----	Connecticut River.
Houston, Tex.-----	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.-----	Wabash River system.
Kansas City, Mo.-----	Missouri from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹ -----	Tennessee River at Knoxville, Tenn.; Holston and French Broad Rivers.
La Crosse, Wis. ² -----	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.-----	Grand River from headwaters to and including Grand Ledge, Mich.; Saginaw River system.
Little Rock, Ark.-----	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Los Angeles, Calif.-----	Los Angeles River.
Louisville, Ky. ¹ -----	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannelton, Ind.; Kentucky River.
Macon, Ga.-----	Altamaha River system.
Memphis, Tenn. ¹ -----	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River in Arkansas.
Meridian, Miss.-----	Pearl and Pascagoula River systems.
Minneapolis, Minn. ² -----	Mississippi River at and above St. Paul, Minn.
Mobile, Ala. ¹ -----	Tombigbee and Black Warrior Rivers.
Montgomery, Ala. ¹ -----	Alabama River system.
Moorhead, Minn.-----	Red River of the North.
Nashville, Tenn. ¹ -----	Cumberland River.
New Orleans, La. ¹ -----	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.-----	Canadian River east of boundary of New Mexico.
Omaha, Nebr.-----	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹ -----	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., excluding the Great Kanawha River.
Pensacola, Fla.-----	Concuh and Choctawhatchee River systems.
Philadelphia, Pa.-----	Delaware River system.
Phoenix, Ariz.-----	Gila River system.
Pittsburgh, Pa. ¹ -----	Allegheny and Monongahela Rivers; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Oreg.-----	Columbia River system.
Raleigh, N. C.-----	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.-----	James River.
Sacramento, Calif.-----	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, the Eel, and Los Angeles Rivers.
St. Louis, Mo. ¹ -----	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Missouri River east of Lexington, Mo., except the Osage River in Kansas; Illinois River; Meramec River; White, Black, and St. Francis Rivers in the State of Missouri.
San Antonio, Tex.-----	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas.
Shreveport, La. ¹ -----	Red River at and above Shreveport, La.
Sioux City, Iowa.-----	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Topeka, Kans.-----	Kansas River; Neosho and Osage Rivers in Kansas.
Vicksburg, Miss. ¹ -----	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.-----	Potomac River.
Wausau, Wis.-----	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.-----	Arkansas River in the State of Kansas.

LIST OF MOST FREQUENT ABBREVIATIONS USED IN THIS PUBLICATION

B. M. Bench mark.
P. B. M. Permanent bench mark.
T. B. M. Temporary bench mark.
msl. Mean sea level.
mgl. Mean gulf level.
M. R. C. Mississippi River Commission.
U. S. E. United States Engineer Corps.

U. S. G. S. United States Geological Survey.
U. S. R. S. United States Reclamation Service.
U. S. W. B. United States Weather Bureau.
U. S. C. & G. S. United States Coast and Geodetic Survey.
W. & P. R. B. Water and Power Resources Board of Pennsylvania.

¹ Forecasts made daily throughout the year.² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS

7

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Continued

[Stations taking occasional observations only printed in italics. Reference notes are at the end of this table]

Station	Established	River	Distance above mouth of river	Drainage area above station	Flood stage	Highest stage	Date	Lowest	Date	Width of river at low water	Bankful stage	Width of river at bankful stage	Elevation of zero of gage above msl.
MISSISSIPPI DRAINAGE—continued													
Ohio Basin—Con.													
Logansport, Ind.	Dec. 1, 1910	Wabash	<i>Miles</i> 358	<i>Sq. miles</i> 3, 179	<i>Feet</i> 15	<i>Feet</i> 25.5	Mar. 26, 1913	2.2	Dec. 4, 1914	<i>Feet</i> 476	<i>Feet</i> 17	<i>Feet</i> 581	<i>Feet</i> 570.0
La Fayette, Ind.	Oct. 1, 1913	Wabash	316	7, 120	13	32.9	Mar. 26, 1913	0.3	July 9, 1895 ¹	450	11	500	501.2
Covington, Ind.	Jan. 1, 1927	Wabash	268	7, 760	16	35.3	Mar. 26 or 27, 1913			460	16	600	
Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12, 200	16	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892	540	16	662	446.6
Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14, 000	14	24.0	Mar. 29, 1913	-1.0	Dec. 1, 1922 ¹	742	14	782	397.4
Mount Carmel, Ill.	June 16, 1884	Wabash	95	28, 590	16	31.0	Mar. 30, 1913	-0.2	Nov. 7, 1895 ¹	742	19	1, 680	372.1
Rochester, Ind.	Sept. 1, 1925	Tippecanoe	116	6, 500	6					100	6		
Norway, Ind.	Sept. 1, 1925	Tippecanoe	25	1, 800									
Decker, Ind.	Dec. 1, 1915	White	18	10, 717	18	28.8	Mar. 29, 1913	0.0	Nov. 23, 1913	600	16	675	639.0
Seymour, Ind.	Apr. 17, 1923	White, E. Fork	118	2, 140	10	18.1	Mar. 26, 1913	0.0	(?)	300	10	412	555.8
Williams, Ind.	Dec. 1, 1920	White, E. Fork	62	4, 672	10	17.4	Apr. 19, 1922	-1.5	Sept. 16, 1922	293	10		472.6
Shoals, Ind.	May 1, 1908	White, E. Fork	42	4, 914	20	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914 ¹	300	25	450	443.0
Anderson, Ind.	Dec. 1, 1910	White, W. Fork	185	503	12	22.1	Mar. 25, 1913	0.6	(?)	126	8	400	827.4
Noblesville, Ind.	Dec. 1, 1913	White, W. Fork	149	900	14	23.8	Mar. 25, 1913	3.0	Aug. 29, 1914	226	14	1, 646	737.0
Indianapolis, Ind.	Dec. 1, 1911	White, W. Fork	124	1, 610	18	29.5	Mar. 26, 1913	1.6	Aug. 12, 1911 ¹	260	12	400	670.7
Ellettsport, Ind.	May 1, 1908	White, W. Fork	51	4, 066	19	31.3	Mar. 27, 1913	3.0	(?)	300	18	500	473.2
Edwardsport, Ind.	May 16, 1923	White, W. Fork	30	4, 772	15	24.0	(?)			60	10	100	436.0
Williamsburg, Ky.	Feb. 1, 1908	Cumberland	589	1, 620	22	33.0	Mar. 30 or 31, 1886	-2.5	Sept. 16, 1919	260	19	300	892.4
Burnside, Ky.	Dec. 15, 1884	Cumberland	519	4, 890	50	69.5	Jan. 29, 1918	-1.6	Nov. 8, 1895 ¹	200	50	350	585.6
Celina, Tenn.	Dec. 1, 1903	Cumberland	383	7, 320	45	57.2	Dec. 29, 1926	-0.2	Oct. 6, 1911	350	45	600	489.7
Carthage, Tenn.	Feb. 10, 1885	Cumberland	308	10, 740	40	59.1	Dec. 30, 1926	-0.4	Nov. 16, 1902	450	40	540	437.9
Nashville, Tenn.	May 18, 1873	Cumberland	193	12, 860	40	56.2	Jan. 1, 1927	-0.1	Sept. 13, 1881 ¹	400	40	675	388.2
Clarksville, Tenn.	Dec. 1, 1900	Cumberland	127	15, 980	46	60.6	Jan. —, 1882	-1.0	Sept. 18, 1913	500	46	705	331.3
Lock F, Eddyville, Ky.	Dec. 1, 1923	Cumberland	44	17, 215	57	68.5	Jan. 5, 1927	-0.7	Oct. 14, 1894 ¹	250	50	800	290.3
New River, Tenn.	Feb. 1, 1908	New	67	355	25	33.0	Feb. —, 1903	-0.3	Sept. 12, 1925 ¹	158	18	177	1, 090.0
Rock Island, Tenn.	Mar. 1, 1927	Caney Fork	60	1, 640		20.5	Dec. 25, 1926			150	25	200	665.0
Knoxville, Tenn.	Feb. 1, 1883	Tennessee	648	8, 990	20	44.4	Mar. 10, 1867	-1.9	Sept. 10, 1925 ¹	840	12	960	787.5
Loudon, Tenn.	Dec. 1, 1883	Tennessee	591	12, 300	25	47.0	Mar. 10 or 11, 1867	-1.1	Nov. 2, 1904	1, 400	22	2, 500	728.3
Rockwood, Tenn.	Feb. 10, 1883	Tennessee	553	16, 200	20	44.5	Mar. 10 or 11, 1867	-0.8	Dec. 1, 1894 ¹	2, 220	25	2, 700	688.9
Chattanooga, Tenn.	Dec. 1, 1876	Tennessee	464	21, 418	33	57.7	Mar. 11, 1867	0.0	Sept. —, 1837 ¹	1, 165	33	1, 317	620.8
Hales Bar, Guild, Tenn. (above dam)	Jan. 1, 1917	Tennessee	431	21, 800	50	54.0	Mar. 11, 1867 ¹	0.0	Sept. —, 1881	1, 400		1, 400	588.7
Hales Bar, Guild, Tenn. (below dam)	Jan. 1, 1917	Tennessee	431	22, 000	32	47.3	Mar. 11, 1867	-0.7	Nov. 9, 1924	1, 400	30	1, 400	588.7
Bridgeport, Ala.	Apr. 13, 1890	Tennessee	414	22, 650	24	41.2	Mar. 11 or 12, 1867	-1.9	Nov. 10, 1924	470	18	1, 910	585.0
Widows Bar Dam, Ala.	Sept. 21, 1925	Tennessee	407		26						26	1, 250	572.6
Guntersville, Ala.	Nov. 1, 1904	Tennessee	358	24, 200	31	48.0	Mar. —, 1867	-0.5	Sept. 29, 1925	1, 650	30	1, 950	546.8
Decatur, Ala.	Apr. 9, 1909	Tennessee	304	26, 267	21	29.5	Mar. 15, 1867 ¹	-0.8	Oct. 25, 1884 ¹	1, 600	21	1, 800	536.1
Dam No. 2, Florence, Ala.	Oct. 25, 1925	Tennessee	259	30, 790						4, 500	12	4, 500	493.1
Florence, Ala.	Nov. 1, 1890	Tennessee	256	30, 790	18	32.5	Mar. 19, 1897	-3.0	Oct. 8, 1925	2, 000	18	2, 080	400.8
Riverton, Ala.	Oct. 1, 1903	Tennessee	226	30, 850	33	58.4	Mar. 20, 1897	4.3	Oct. 12, 1925	1, 075	33	1, 300	355.5
Savannah, Tenn.	June 16, 1905	Tennessee	190	31, 050	40	59.6	Mar. 21, 1897	-2.6	Sept. 8, 1925 ¹	698	39	900	337.1
Johnsonville, Tenn.	Oct. 1, 1875	Tennessee	96	38, 470	31	48.0	Mar. 24, 1897	-1.9	Sept. 11, 1925	1, 320	31	1, 500	315.4
Asheville, N. C.	Mar. 19, 1903	French Broad	144	941	4	23.6	July 16, 1916	-2.0	Nov. 1, 1904 ¹	353	4	381	1, 961.8
Marshall, N. C.	Dec. 1, 1917	French Broad	113	1, 340	10	24.8	July 16, 1916	-0.4	Nov. 26, 1922 ¹	300	16	320	1, 624.0
Dandridge, Tenn.	Dec. 1, 1904	French Broad	42	4, 450	12	28.0	May 21, 1901	-0.7	Dec. 3, 1910 ¹	475	12	500	903.1
Newport, Tenn.	Nov. 1, 1906	Big Pigeon	6	655	6	17.0	Apr. 2, 1920	0.4	Oct. 3, 1919	150	6	160	1, 040.9
Embsville, Tenn.	May 1, 1926	Nolichucky	75	795	10	11.0	Aug. 3, 1921	1.6	Sept. 8, 1925 ¹	175	10	400	1, 512.6
Rogersville, Tenn.	Mar. 10, 1902	Holston	103	3, 060	14	38.4	Mar. 10, 1867	1.0	Oct. 23, 1904 ¹	385	18	640	1, 053.9
Mendota, Va.	Feb. 1, 1906	Holston, N. Fork	25	500	8	17.5	June 14, 1907	0.0	Oct. —, 1902	200	8	212	
Bluff City, Tenn.	Mar. 10, 1902	Holston, S. Fork	35	828	12	15.0	May 22, 1901	-0.2	Dec. 1, 1903 ¹	210	12	260	1, 368.1
Elizabethton, Tenn.	Dec. 1, 1909	Watauga	52	553	14	22.0	Feb. 27 or 28, 1902	0.5	(?)	170	14	380	1, 486.0
Speers Ferry, Va.	Dec. 1, 1895	Clinch	156	1, 144	20	26.6	Feb. 28, 1902	-1.3	Oct. 7, 1904 ¹	300	18	390	1, 209.0
Clinton, Tenn.	Feb. 1, 1883	Clinch	63	3, 090	25	45.0	Mar. 31, 1886	0.0	Dec. 4, 1883 ¹	260	28	420	770.6
Kington, Tenn.	Feb. 1, 1883	Clinch	1	3, 211	25	43.4	Mar. —, 1867	-0.9	Dec. 1, 1884 ¹	620	26	770	702.3
McGhee, Tenn.	Sept. 1, 1904	Little Tennessee	17	2, 470	20	39.0	Mar. —, 1867	1.0	Nov. 29, 1904	580	18	625	751.1
Charleston, Tenn.	Feb. 1, 1883	Hwassee	20	2, 297	22	32.5	Mar. 31, 1886	-1.4	Sept. 21, 1925	274	17	490	674.5
Fayetteville, Tenn.	Nov. 1, 1925	Elk	88	820	14	25.8	Dec. 28, 1926	0.5	(?)	160	8	215	
Columbia, Tenn.	Nov. 1, 1886	Duck	66	1, 210	30	45.6	Mar. 30, 1902	-1.0	Oct. 6, 1910	100	30	250	537.9
Mississippi Basin proper													
Fort Ripley, Minn.	Mar. 1, 1906	Mississippi	2, 097	11, 140	10	12.4	July 8, 1905	2.8	Oct. 20, 1918 ¹	360	10	360	1, 135.4
St. Paul, Minn.	Mar. 18, 1873	Mississippi	1, 955	36, 509	14	19.7	Apr. 29, 1881	-2.7	Feb. 17, 1926	486	8	860	684.2
Red Wing, Minn.	Aug. 31, 1893	Mississippi	1, 907	46, 345	14	15.3	June 18, 1880	-0.9	Nov. 23, 1910 ¹	880	14	8, 300	665.0
Reads, Minn.	Nov. 10, 1893	Mississippi	1, 879	55, 956	12	14.8	June 18, 1880	-1.7	Feb. 7, 1911 ¹	550	12	10, 500	664.1
Winona, Minn.	Apr. 1, 1919	Mississippi	1, 841	59, 038	16	16.9	June 18, 1880	-1.3	Dec. 30, 1889	1, 000	16	8, 300	639.5
La Crosse, Wis.	Oct. 1, 1874	Mississippi	1, 812	62, 875	12	16.2	June 19, 1880	-1.2	Aug. 26, 1877 ¹	980	12	13, 000	626.0
Lansing, Iowa	June 1, 1912	Mississippi	1, 777	66, 268	18	19.9	June 20 or 21, 1880	0.0	—, 1864	850	18	14, 100	612.5
Prairie du Chien, Wis.	Nov. 16, 1893	Mississippi	1, 749	57, 036	18	21.3	June 22, 1880	-0.1	Dec. 30, 1889	1, 815	8	2, 200	605.2
Dubuque, Iowa	Oct. 1, 1873	Mississippi	1, 691	81, 987	18	21.7	June 23, 1880 ¹	-1.2	Jan. 3, 1890	1, 525	8	1, 600	584.9
Clinton, Iowa	July 1, 1904	Mississippi	1, 627	85, 538	16	20.5	June 25, 1880	0.0	—, 1864	2, 888	16	3, 915	660.0
Le Claire, Iowa	June 1, 1873	Mississippi	1, 605	88, 165	10	14.5	June 25, 1880 ¹	-1.2	Jan. 4, 1890	1, 666	10	1, 818	562.7
Davenport, Iowa	May 18, 1873	Mississippi	1, 592	88, 332	15	19.4	June 27, 1892	-1.2	Dec. 5, 1910	2, 300	15	2, 582	541.9
Muscatine, Iowa	July 1, 1904	Mississippi	1, 562	90, 486	16	19.5	Apr. 24, 1922	-1.8	Jan. 7, 1890	2, 043	15	2, 463	530.9
Keithsburg, Ill.	Dec. 1, 1918	Mississippi	1, 534	113, 041	12	15.4	May —, 1888			3, 000	12	3, 600	522.6
Keokuk, Iowa	May 25, 1873	Mississippi	1, 467	119, 058	14	21.0	June 6, 1851	-3.1	Dec. 17, 1922	2, 100	12	2, 300	477.4
Warsaw, Ill.	—, 1873	Mississippi	1, 462	133, 320	17	22.1	May 18, 1888 ¹	-0.6	Sept. 30, 1891 ¹	2, 850	16	3, 050	472.4
Quincy, Ill.	Apr. 1, 1910	Mississippi	1, 429	135, 080	14	22.1	June 5, 1851	-1.9	Dec. 10, 1910	2, 500	14	2, 650	467.9
Hannibal, Mo.	Apr. 1, 1892	Mississippi	1, 410	137, 292	13	22.5	June 8, 1903	-1.9	Dec. 4, 1893	1, 582	13	2, 650	449.0

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1928	January	February	March	April	May	June	July	August	September	October	November	December	1928	January	February	March	April	May	June	July	August	September	October	November	December	
WABASH RIVER—COVINGTON, IND.													WABASH RIVER—VINCENNES, IND.													
[Flood stage, 16 feet]													[Flood stage, 14 feet]													
1	10.1	6.7	8.0	9.8	5.2	3.8						2.8	1	7.7	5.9	6.6	7.4	4.0	2.2					0.8	0.8	
2	10.0	6.8	8.6	12.9	5.1	3.9						3.4	2	8.1	5.1	6.5	6.4	3.7	2.0					0.8	0.8	
3	12.2	6.4	8.2	12.6	5.3	3.7						3.2	3	8.1	4.6	6.4	5.6	3.0	1.8					0.8	0.8	
4	10.5	6.4	7.3	10.8	5.1	3.8						2.7	4	8.0	4.4	6.4	8.2	2.8	1.8					0.8	0.8	
5	11.0	9.1	6.9	9.1	4.9	4.0	11.3	5.3		1.2		3.2	5	5.0	8.0	6.1	7.6	2.8	4.5					0.6	0.6	
6	12.0	12.9	6.9	7.8	5.0	4.7	13.6					3.3	6	4.7	11.6	5.9	7.0	2.8	6.7					0.6	0.6	
7	12.8	15.1	7.0	7.2	4.8	6.4	15.1					3.0	7	4.5	12.8	5.6	6.5	2.9	7.1	9.4				0.6	0.6	
8	13.4	15.6	6.6	7.0	4.4	10.4						3.0	8	5.0	13.7	4.8	5.7	2.8	7.3	10.4				0.6	0.6	
9	13.8	14.8	6.3	6.9	4.7	10.7						3.5	9	5.5	14.1	4.8	5.4	2.7	8.4	11.2				0.6	0.6	
10	14.2	14.6	6.5	6.8	4.6	9.4						3.5	10	6.0	14.5	4.9	5.4	2.5	10.6	10.9				0.5	0.5	
11	15.1	14.4	6.8	6.8	4.5	11.3						3.0	11	6.3	14.8	4.9	5.3	2.2	11.1	9.7				0.5	0.5	
12	12.2	12.1	6.8	6.5	4.6	11.1			3.8			3.0	12	6.8	14.4	4.6	4.9	2.2	9.9					0.5	0.5	
13	10.3	10.0	7.1	6.2	4.4	8.6						2.9	13	7.2	14.0	4.5	4.6	2.1	8.9					0.5	0.5	
14	10.2	9.7	7.2	6.1	4.2	7.2						3.0	14	9.8	13.5	5.1	4.4	2.1	8.2					0.5	0.5	
15	10.0	12.1	8.6	6.0	4.0	6.1						3.4	15	8.9	13.3	5.4	4.2	2.3	7.3					0.5	0.5	
16	9.5	16.2	10.9	5.8	4.2	5.5						3.8	16	7.8	12.9	5.2	4.2	2.3	5.8					0.7	0.7	
17	9.4	18.0	10.6	5.8	4.4	5.1						4.1	17	7.1	12.7	5.1	4.0	2.4	4.8					1.1	1.1	
18	9.3	19.4	8.9	5.7	4.5	4.8		3.4				4.2	18	7.0	12.6	6.4	3.9	6.5	4.5	1.0				3.5	3.5	
19	9.3	16.6	7.8	5.5	4.5	6.4						5.6	19	7.0	12.6	6.4	3.8	5.6	4.5					5.8	5.8	
20	12.0	12.9	7.1	5.4	4.7	12.1	(6)					6.9	20	7.9	12.6	6.3	3.6	5.5	4.5					5.9	5.9	
21	15.6	10.7	6.9	5.3	8.5	13.1						6.9	21	10.5	12.9	6.3	3.4	5.2	8.0					5.8	5.8	
22	15.4	9.0	6.7	5.2	7.0	14.9						5.8	22	11.0	12.6	4.8	5.9	4.6	10.1					5.4	5.4	
23	12.0	8.6	6.4	5.2	5.9	14.1						4.9	23	11.3	12.3	4.5	7.0	5.2	10.9					5.2	5.2	
24	10.1	9.2	6.0	8.0	6.4	12.8		3.9				4.7	24	11.3	10.8	4.3	5.6	5.4	11.1	1.0				3.5	3.5	
25	11.5	9.3	5.9	9.8	4.9	11.7						4.6	25	11.2	8.8	4.2	5.4	4.4	11.4					3.1	3.1	
26	11.4	9.4	5.9	8.6	4.6	9.7						4.6	26	10.5	7.7	4.0	4.4	4.0	10.7					3.0	3.0	
27	11.3	8.9	5.8	7.4	4.5	8.6						4.5	27	10.2	7.2	3.8	5.5	3.0	9.1					2.7	2.7	
28	10.0	8.1	6.0	6.5	4.2	7.8						4.4	28	9.9	6.8	3.6	5.5	3.0	7.6					2.5	2.5	
29	8.8	7.9	6.2	5.9	4.0	7.1						4.3	29	8.9	6.6	3.5	4.7	2.8	6.7					1.8	1.8	
30	7.3		5.9	5.5	4.2	8.4						4.3	30	7.4		3.5	4.4	2.7	6.1					2.2	2.2	
31	6.4		6.3		4.1							4.2	31	6.7		0.8		2.6						2.2	2.2	
Mean	10.7	11.4	7.2	7.3	4.8	8.2						4.0	Mean	7.9	10.8	5.2	5.3	3.4	7.1						2.1	2.1
WABASH RIVER—TERRE HAUTE, IND.													WABASH RIVER—MOUNT CARMEL, ILL.													
[Flood stage, 16 feet]													[Flood stage, 16 feet]													
1	9.7	(*)	6.7	5.7	3.3	1.9	7.7	1.7	3.8	0.4	0.4	1.0	1	10.0	7.3	9.6	9.0	11.6	4.7	10.3	3.8	4.9	1.5	1.9	3.9	
2	9.0	(*)	6.7	8.0	3.0	1.5	6.4	2.0	3.8	0.4	0.4	1.0	2	10.0	6.5	9.1	9.1	9.0	4.4	10.3	3.5	4.7	1.5	1.9	3.7	
3	4.2	(*)	7.0	9.8	2.9	1.5	5.4	1.8	2.8	0.4	0.4	1.0	3	9.6	6.4	9.0	9.5	7.9	3.8	9.8	3.9	4.3	1.5	3.0	3.7	
4	4.2	(*)	6.8	9.4	3.0	1.7	4.9	1.8	2.4	0.4	0.4	1.0	4	9.6	6.1	9.0	10.0	6.7	3.7	8.9	3.5	3.9	1.5	4.2	3.7	
5	4.3	12.0	5.8	8.0	3.0	6.1	8.0	1.6	1.8	0.4	0.3	0.8	5	7.5	7.6	8.9	11.0	6.2	4.7	8.3	3.0	3.5	1.6	6.6	3.7	
6	4.6	14.2	5.4	6.8	2.7	6.2	14.0	2.4	1.8	0.7	0.8	0.8	6	6.3	12.0	8.4	10.5	5.2	7.1	8.2	3.0	3.1	1.6	6.0	3.4	
7	4.4	14.2	5.2	6.0	2.7	6.8	14.9	2.8	1.7	0.8	0.8	0.8	7	6.0	15.1	7.9	9.0	5.1	9.0	10.0	2.9	2.5	1.9	5.5	3.1	
8	4.4	14.7	5.2	6.0	2.5	6.7	14.8	2.0	1.2	0.8	0.8	0.8	8	6.3	17.0	7.4	7.9	4.8	10.0	11.1	3.1	2.5	2.2	4.9	3.1	
9	4.4	15.0	5.0	6.0	2.2	12.2	13.0	2.0	1.1	0.8	0.8	0.8	9	7.0	18.0	7.1	7.3	4.6	12.8	12.5	3.1	2.5	2.5	4.2	2.6	
10	4.0	14.9	4.7	5.7	2.2	12.0	9.8	2.5	1.0	0.6	0.8	0.8	10	7.7	18.0	7.1	7.1	4.4	14.4	13.4	3.0	2.3	2.1	3.8	2.5	
11	9.4	14.5	4.7	5.2	2.2	9.8	7.0	2.4	1.0	0.6	0.8	0.6	11	8.4	19.8	7.4	6.9	4.2	15.3	13.5	3.0	2.2	2.0	3.4	2.3	
12	10.1	13.8	5.2	5.0	2.4	9.7	5.8	1.8	0.7	0.5	0.8	0.6	12	9.2	20.4	7.4	6.5	4.1	15.5	12.0	3.4	2.0	1.7	3.0	2.2	
13	10.6	12.2	5.3	4.4	2.5	8.6	4.0	1.6	0.8	0.4	0.7	0.6	13	9.4	20.7	6.9	6.3	4.0	15.3	10.0	3.4	1.9	1.6	3.0	2.1	
14	9.5	10.7	5.4	4.2	2.2	7.0	3.4	1.0	2.4	0.4	0.7	0.5	14	9.9	20.5	7.0	6.0	3.8	15.0	8.5	3.2	1.8	1.5	2.9	2.2	
15	9.1	13.6	5.7	4.0	2.1	5.7	4.7	1.1	1.6	0.4	0.7	0.4	15	9.7	20.0	7.4	5.9	3.8	14.3	7.5	2.9	1.9	1.5	2.7	4.0	
16	8.6	13.9	7.0	4.0	1.9	4.6	4.0	0.9	1.2	0.4	0.7	0.3	16	9.3	19.0	7.4	5.0	3.8	13.2	7.2	2.5	2.2	1.5	2.6	5.1	
17	8.4	14.1	8.2	3.9	2.0	3.8	3.8	0.9	1.0	0.6	0.8	0.8	17	8.9	18.0	7.0	5.5	3.7	11.0	6.4	2.4	2.0	3.0	2.6	6.3	
18	8.0	14.6	7.8	3.8	2.8	3.4	4.4	0.9	1.0	0.6	0.9	0.5	18	8.8	17.5	8.5	5.3	6.3	8.9	5.7	2.4	1.8	5.0	3.6	8.4	
19	8.0	14.8	6.7	3.7	3.7	3.7	4.1	0.9	0.5	0.6	0.9	0.5	19	8.8	17.4	8.9	5.3	8.8	8.5	5.4	2.3	1.8	5.2	4.5	10.4	
20	12.5	14.9	5.7	3.6	4.3	8.1	3.4	1.2	0.6	0.6	1.3	0.5	20	10.8	17.5	8.6	5.1	10.1	8.3	5.2	2.3	1.8	4.5	4.5	11.3	
21	13.1	13.7	5.1	3.7	4.0	12.7	3.8	1.0	0.7	0.6	1.3	0.5	21	12.5	17.5	8.0	5.1	10.1	9.3	5.0	2.3	1.7	3.8	4.4	11.9	
22	13.2	10.4	4.8	4.1	5.8	12.6	5.8	0.8	0.7	0.6	1.2	0.6	22	13.5	17.0	7.4	9.6	9.5	12.0	4.9	2.3	1.5	2.8	4.2	12.0	
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EMELINE FAIRBANKS MEMORIAL LIE

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE

PRINCIPAL RIVERS OF THE UNITED STATES

VOLUME XXIV

FOR THE YEAR 1926

REFERENCE
DO NOT CIRCULATE

BY
H. C. FRANKENFIELD
SENIOR METEOROLOGIST

Community Affairs File



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1927

INTRODUCTION

This volume, containing the daily river stages for 1926, constitutes the twenty-fourth of a series of "Daily River Stages on the Principal Rivers of the United States," the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.
- Daily Stages at River Gage Stations on the Principal Rivers of the United States.
- IV. 1890 to 1892.
- V. 1893 to 1895.
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Volumes I to XIV are out of print and can not be supplied.

The river stages are the vertical heights in feet and tenths with reference to the zero of the graduated gage.

The gage zeros have generally been placed at the lowest known water or at the bottom of the flowing water at the place.

Gage readings are usually in the morning about 8 o'clock seventy-fifth meridian time.

When the highest stage for a month occurred at the time of a special observation, it has been printed as a footnote beginning with the year 1907.

In order that all readings for a given station may be comparable, a table of corrections to be applied to data in previous publications of Daily River Stages is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This table immediately precedes the description of gages and bench marks.

The district centers and the territory covered by each are given in the following table:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.	Hudson River system.
Atlanta, Ga.	Apalachicola River system.
Augusta, Ga.	Savannah River.
Binghamton, N. Y.	Susquehanna River at and above Binghamton, N. Y.
Bismarck, N. Dak.	Missouri River at and above Bismarck, N. Dak.
Brownsville, Tex.	Rio Grande below El Paso, Tex.
Cairo, Ill. ¹	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo.; Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio ¹	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River; the Little Miami, and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky River.
Columbia, S. C. ²	Santee River system.
Columbus, Ohio.	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.	Merrimac River.
Dallas, Tex.	Trinity River above Long Lake, Tex.
Davenport, Iowa ²	Mississippi River from below Dubuque to Muscatine, Iowa.
Dayton Ohio	Miami River.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of flood.

Denver, Colo.	Colorado River, except the Gila River; Arkansas River in the State of Colorado, Pecos River, Rio Grand to El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa ¹	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except the upper Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids, Wis.
Evansville, Ind. ¹	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.	Arkansas and Neosho Rivers from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River; Verdigris River.
Fort Wayne, Ind.	Maumee River.
Fresno, Calif.	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo. ¹	Mississippi River from below Muscatine, Iowa, to and including Louisiana, Mo.; Des Moines River east of Des Moines, Iowa.
Harrisburg, Pa.	Susquehanna River, except at and above Binghamton, N. Y.
Hartford, Conn.	Connecticut River.
Houston, Tex.	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.	White River.
Kansas City, Mo.	Missouri River from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River at Knoxville, Tenn.; Holston and French Broad Rivers.
La Crosse, Wis. ²	Mississippi River from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.	Grand River from headwaters to and including Grand Ledge, Mich., Saginaw River system.
Little Rock, Ark.	Arkansas River and tributaries below Fort Smith, Ark.; White and Black Rivers of Arkansas.
Los Angeles, Calif.	Los Angeles River.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannelton, Ind. Kentucky River.
Macon, Ga.	Altamaha River system.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River in Arkansas.
Meridian, Miss.	Pearl and Pascagoula River systems.
Minneapolis, Minn. ²	Mississippi River at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee and Black Warrior Rivers.
Montgomery, Ala. ¹	Alabama River system.
Moorhead, Minn.	Red River of the North.
Nashville, Tenn. ¹	Cumberland River.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers.
Oklahoma City, Okla.	Canadian River east of boundary of New Mexico.
Omaha, Nebr.	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., excluding the Green Kanawha River.
Philadelphia, Pa.	Delaware River system.
Phoenix, Ariz.	Gila River.
Pittsburgh, Pa. ¹	Allegheny and Monongahela Rivers; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Oreg.	Columbia River system.
Raleigh, N. C.	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.	James River.
Sacramento, Calif.	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, the Eel, and Los Angeles Rivers.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Missouri River east of Lexington, Mo., except the Osage River in Kansas; Illinois River; Meramec River; White, Black, and St. Francis Rivers in the State of Missouri.
San Antonio, Tex.	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Terre Haute, Ind.	Wabash River system, except the White River.
Topeka, Kans.	Kansas River; Neosho and Osage Rivers in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.	Potomac River.
Wausau, Wis.	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.	Arkansas River in the State of Kansas.

¹ Forecasts made daily throughout the year.² Forecasts made daily during the season of navigation and in times of flood.

NOTE.—Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS

5

date, lowest
continued

Date of establishing station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, width of river at average low water and at bankful stage, and elevation of zero of gage above mean sea level—Continued

[Stations taking occasional observations only printed in italics. Reference notes are at the end of this table]

Width of river at bankful stage (feet)	Elevation of zero of gage above msl. (feet)	Station	Established	River	Distance above mouth of river (miles)	Drainage area above station (square miles)	Flood stage (feet)	Highest stage (feet)	Date	Lowest stage (feet)	Date	Width of river at low water (feet)	Bankful stage (feet)	Width of river at bankful stage (feet)	Elevation of zero of gage above msl. (feet)
MISSISSIPPI DRAINAGE—continued															
Ohio Basin—Contd.															
480	1,171.0	Zanesville, Ohio	June 4, 1887	Muskingum	76	6,474	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895 *	350	33	520	665.3
800	857.3	McConnellsville, Ohio	Jan. 1, 1911	Muskingum	48	7,410	22	49.1	Mar. 27, 1913	2.9	Aug. 17, 1910	332	21	550	635.0
900	846.1	Beverly, Ohio	Jan. 10, 1905	Muskingum	25	7,700	25	46.5	Mar. 28, 1913	2.6	Aug. 22, 1910	550	24	610	602.6
935	735.4	Marietta, Ohio	May 1, 1914	Muskingum	0.2	8,040	28	51.5	Mar. 29, 1913	8.1	Sept. 4, 1925 *	500	28	650	575.6
1,000	714.0	Dover, Ohio	Jan. 1, 1905	Tuscarawas	47	1,410	9	16.1	Mar. 28, 1913	-2.1	May 27, 1914	350	7	400	862.0
175	1,151.7	Gnadenhutten, Ohio	June 1, 1923	Tuscarawas	26	1,503	9	19.5	Mar. 28, 1913			240	13	480	811.8
550	838.9	Coshocton, Ohio	Dec. 16, 1904	Tuscarawas	0	4,840	8	27.5	Mar. 28, 1913	-1.1	Dec. 1, 1904	300	8	325	730.5
600	785.6	Uhrichsville, Ohio	July 20, 1922	Stillwater Creek	6	367						100			
750	753.0	Walhonding, Ohio	Oct. 15, 1913	Walhonding	14	1,480	8	26.0	Mar. 28, 1913	-1.0	Dec. 1, 1924 *	75	8	335	811.1
750	753.2	Glennville, W. Va.	Sept. 10, 1900	Little Kanawha	103	385	23	33.6	Nov. 16, 1926	-0.9	Nov. 10, 1908	75	22	200	693.0
		Creston, W. Va.	Sept. 10, 1900	Little Kanawha	48	1,347	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1900	200	15	300	621.7
		Athens, Ohio	Feb. 16, 1916	Hocking	30	944	17	26.7	Jan. 1, 1907	2.4	Aug. 19, 1924 *	107	17	137	615.6
		Ivanhoe, Va.	Oct. 15, 1916	Kanawha-New	310	1,300	15	35.4	July 16, 1916	0.0	Aug. 1, 1917 *	280	17	800	1,941.9
		Radford, Va.	Jan. 26, 1895	Kanawha-New	250	2,720	14	34.0	Sept. 13, 1878	-2.0	Nov. 3, 1904 *	580	14	650	1,713.7
		Narrows, Va.	Mar. 7, 1914	Kanawha-New	206	3,605	20	33.1	Sept. 13, 1878	1.5	Aug. 29, 1917	500	14	700	1,518.4
970	714.5	Glenlyn, Va.	May 10, 1926	Kanawha-New	199	3,700	11	24.0	July 1, 1916			650	11	850	1,492.0
400	1,369.8	Hinton, W. Va.	June 4, 1887	Kanawha-New	156	6,160	14	20.2	Sept. 13, 1878	0.5	(*)	600	14	700	1,365.2
350	1,308.9	Kanawha Falls, W. Va.	Jan. 1, 1914	Kanawha	95	8,370	25	37.8	Sept. 14, 1878	-0.9	Oct. 29, 1921	650	25	1,040	618.7
455	740.2	Charleston, W. Va.	June 4, 1887	Kanawha	58	10,490	30	46.9	Sept. 29, 1861	-0.1	Sept. 15, 1881	600	30	700	554.5
2,030	694.0	Renick, W. Va.	Dec. 1, 1915	Greenbrier	74	680	17	21.6	—, 1889	0.0	Aug. 30, 1917 *	290	17	330	1,853.4
1,200	683.4	Camden-on-Gauley, W. Va.	Dec. 5, 1901	Gauley	71	236	20	21.7	Dec. 15, 1901	-1.8	(*)	160	20	215	2,005.7
1,281	656.4	Gassaway, W. Va.	Apr. 1, 1918	Elk	95	578	24	44.0	Mar. 13, 1918	1.0	Aug. 24, 1911	160	24	380	796.3
1,575	614.0	Clay, W. Va.	Dec. 1, 1915	Elk	51	1,010	18	32.4	Mar. 14, 1918	0.1	Sept. 11, 1925 *	190	18	270	676.6
1,426	605.0	Sissonville, W. Va.	Nov. 1, 1916	Pocataligo	25	238		33.0	June 27, 1910	1.0	Sept. 7, 1913		30		594.0
1,330	576.9	Logan, W. Va.	Nov. 1, 1915	Guyandotte	79	890	20	27.0	Jan. 28, 1918	0.0	Oct. 10, 1923 *	135	20	240	638.4
1,600	568.4	Wayne, W. Va.	Dec. 10, 1924	Twelve Pole Creek	31	291	25	25.0	(*)	1.0	Oct. 5, 1919	67	25	130	604.7
1,600	561.4	Lock No. 3, Louisa, Ky.	Nov. 1, 1912	Big Sandy	27	3,766	50	48.4	Apr. 3, 1908	0.7	Sept. 25, 1887 *	200	50	450	516.8
1,800	557.3	Pikesville, Ky.	June 1, 1907	Big Sandy, Levisa Fork	88	1,202	35	49.0	Jan. 28, 1918	0.0	July 1, 1898 *	222	40	394	635.5
1,500	538.4	Prestonsburg, Ky.	Dec. 10, 1924	Big Sandy, Levisa Fork	55	1,889	40	43.6	Jan. 29, 1918			190	48	430	588.6
1,430	513.5	Williamson, W. Va.	Nov. 1, 1901	Big Sandy, Tug Fork	57	868	38	38.1	Jan. 29, 1918	-0.8	Oct. 2, 1908 *	200	40	360	620.6
1,750	508.8	Kermit, W. Va.	Feb. 1, 1925	Big Sandy, Tug Fork	38	1,240	38	41.7	July 1, 1875	0.0	Oct. 3, 1908	150	53	340	574.8
1,460	505.2	Larue, Ohio	Mar. 10, 1916	Scioto	104	255	11	17.8	Mar. 26, 1913	2.0	July 11, 1919 *	85	9	120	910.2
1,675	492.0	Prospect, Ohio	Nov. 10, 1904	Scioto	147	554	10	21.1	Mar. 26, 1913	0.2	Oct. 2, 1910	150	8	150	891.7
1,540	470.9	Bellpoint, Ohio	June 1, 1914	Scioto	134	770	9	20.9	Mar. 25, 1913	1.2	Aug. 22, 1921 *	200	6	273	840.0
1,495	484.8	Dublin, Ohio	Apr. 1, 1916	Scioto	123	1,020	8	15.5	Mar. 25, 1913	-2.6	Dec. 5, 1924 *	280	6	370	757.9
1,575	477.7	Columbus, Ohio	July 1, 1897	Scioto	110	1,610	22	22.9	Mar. 25, 1913	-0.8	July 27, 1923 *	522	24	578	700.0
1,740	463.1	Circleville, Ohio	Sept. 1, 1887	Scioto	80	3,220	10	24.2	Mar. 26, 1913	-2.2	Aug. 17, 1925 *	425	7	507	647.0
1,800	455.0	Chillicothe, Ohio	June 5, 1907	Scioto	58	3,850	16	39.8	Mar. 26, 1913	1.0	Sept. 27, 1916 *	200	15	300	594.0
1,540	470.9	Delaware, Ohio	June 10, 1910	Olentangy	25	415	9	25.5	Mar. 25, 1913	-0.5	Aug. 31, 1921 *	180	9	253	848.6
1,740	463.1	Kings Mills, Ohio	July 1, 1912	Little Miami	25	793	17	33.7	Mar. 26, 1913	0.5	(*)	175	17	320	587.3
1,800	455.0	Farmers, Ky.	Oct. 5, 1904	Licking	172	768	25	31.1	Feb. 9, 1918	0.5	(*)	135	22	314	635.7
1,800	455.0	Falmouth, Ky.	June 4, 1887	Licking	52	3,240	28	42.8	Aug. 2, 1854	0.0	Sept. 12, 1887 *	252	26	300	512.2
2,100	442.8	Cynthiana, Ky.	Aug. 4, 1917	Licking, S. Fork	46	648	20	35.0	Feb. 6, 1884	0.0	(*)	185	20	300	683.8
2,175	435.3	Sidney, Ohio	Dec. 1, 1913	Miami	133	545	12	19.6	Mar. 25, 1913	0.1	Sept. 1, 1924 *	110	12	260	924.7
2,175	435.3	Piqua, Ohio	Nov. 16, 1904	Miami	119	850	17	29.1	Mar. 25, 1913	1.2	Dec. 16, 1922 *	150	17	350	844.0
1,450	429.8	Tippacanoe City, Ohio	July 1, 1923	Miami	102	1,016	25	21.1	Mar. 25, 1913	-0.1	Sept. 5, 1925 *	100	25	250	788.8
1,744	428.8	Dayton, Ohio	Oct. 1, 1892	Miami	83	2,625	21	31.7	Mar. 25, 1913	-0.1	Sept. 5, 1925 *	350	21	600	721.0
1,800	421.0	Miamisburg, Ohio	July 1, 1923	Miami	78	2,720	22	33.6	Mar. 26, 1913	0.0	Aug. 31, 1924 *	350		665	678.4
1,900	413.7	Franklin, Ohio	July 1, 1923	Miami	73	2,785	16	23.0	Mar. 26, 1913	0.2	Sept. 6, 1925 *	260		365	658.4
2,200	360.0	Middletown, Ohio	July 1, 1923	Miami	63	3,162	15	29.0	Mar. 26, 1913	0.0	Oct. 8, 1924 *	250	15	300	624.6
3,006	352.2	Hamilton, Ohio	Nov. 16, 1904	Miami	37	3,630	17	39.2	Mar. 26, 1913	-1.4	Sept. 10, 1925 *	400	17	500	560.0
3,306	329.1	Springfield, Ohio	Dec. 1, 1913	Mad.	26	477	11	16.9	Mar. 25, 1913	1.2	Jan. 31, 1924	110	11	300	882.0
2,454	325.1	Pleasant Hill, Ohio	Mar. 1, 1922	Stillwater	22	502	13	17.5	Mar. 25, 1913	0.9	Sept. 4, 1925 *	200	13	250	846.6
3,000	315.4	Brookville, Ind.	Oct. 15, 1924	Whitewater	27	1,180	20	43.5	Mar. 26, 1913	0.8	Sept. 18, 1919	170	20	450	595.7
3,400	309.1	Harard, Ky.	Mar. 1, 1925	Kentucky, N. Fork	351	450	20	38.5	—, 1912			200	20	320	838.0
3,400	378.0	Beattyville, Ky.	May 1, 1902	Kentucky	255	1,654	30	46.3	Feb. 23, 1890	-2.6	June 6, 1916 *	400	30	800	626.2
1,800	308.4	Highbridge, Ky.	Mar. 20, 1901	Kentucky	117	4,818	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912 *	350	25	450	505.4
2,200	360.0	Frankfort, Ky.	Oct. 1, 1898	Kentucky	65	5,140	31	44.0	Feb. 1, 1878	0.4	(*)	400	30	500	464.8
3,006	352.2	Manfordville, Ky.	July 16, 1924	Green	226	1,790	28	54.0	(*)	2.2	Sept. 2, 1921	28	28	350	
2,454	325.1	Lock No. 6, Brownsville, Ky.	Jan. 15, 1917	Green	181	2,900	30	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919 *	290	40	520	402.8
3,000	315.4	Lock No. 4, Woodbury, Ky.	Jan. 15, 1917	Green	150	5,500	33	54.4	Jan. 11, 1913 *	5.0	Sept. 17, 1902 *	450	44	600	373.6
2,600	309.1	Lock No. 2, Rumsey, Ky.	July 1, 1909	Green	63	7,600	34	47.9	Mar. 31, 1904	3.7	July 28, 1902	700	40	1,000	343.5
4,000	284.3	Bowling Green, Ky.	Dec. 1, 1901	Big Barren	30	1,895	20	36.5	Jan. 3, 1919			112	20	250	
3,000	270.4	Bluffton, Ind.	Dec. 1, 1910	Wabash	450	490	11	20.0	Mar. 26, 1913	0.7	June 23, 1913 *	190	10	200	790.0
3,000	270.4	Logansport, Ind.	Oct. 1, 1910	Wabash	368	3,179	15	25.5	Mar. 26, 1913	2.2	Dec. 4, 1914	476	17	581	570.0
550	731.2	La Fayette, Ind.	Oct. 1, 1913	Wabash	316	6,200	11	32.9	Mar. 26, 1913	0.3	July 9, 1895 *	450	11	500	501.1
175	840.0	Terre Haute, Ind.	Dec. 1, 1904	Wabash	214	12,200	16	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892	540	16	662	447.3
		Vincennes, Ind.	Nov. 1, 1904	Wabash	128	14,000	14	24.0	Mar. 29, 1913	-1.0	Dec. 1, 1922 *		14	782	397.4

MISSISSIPPI DRAINAGE—OHIO BASIN—Continued

1926	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—LAFAYETTE, IND.												
[Flood stage, 11 feet]												
1	2.3	6.0	11.0	10.5	3.7	3.6				14.9		4.9
2	2.0	7.5	8.9	14.0	3.5	3.6			4.8	15.7		5.0
3	1.9	5.5	7.2	12.7	3.1	3.2				17.2		4.4
4	1.9	4.6	6.1	13.5	3.0	2.7			6.7	17.9		4.0
5	3.0	3.9	5.3	14.1	2.8	2.4			11.2	18.5		3.7
6	2.9	3.3	4.8	12.5	2.8	2.2			14.5	17.4		3.5
7	2.6	3.1	4.5	12.7	2.5	2.2			15.9	14.3		3.4
8	2.6	2.8	4.4	18.4	3.1	2.2			16.0	11.5		3.1
9	2.6	2.6	4.2	20.6	3.2	1.9			15.7	9.4		3.3
10	2.8	3.2	3.8	21.0	2.8	1.9	1.4		14.8	8.1		3.7
11	2.2	3.2	3.5	20.0	2.9	1.9			6.5	6.2		4.0
12	2.1	3.0	4.2	17.3	2.9	2.2		2.3	6.2	4.0		3.8
13	2.1	2.7	4.0	12.4	2.9	2.3	2.6		5.9	5.0		4.1
14	1.9	2.5	3.9	9.6	3.0	2.6		5.9	5.2			4.1
15	2.1	2.5	3.5	7.4	3.0	4.1		7.3		5.1		4.1
16	2.4	5.5	3.0	6.7	3.0	4.6			8.5			4.0
17	1.8	4.8	3.0	6.4	2.2	4.6			10.8			4.0
18	2.4	4.0	2.9	5.9	2.7	4.0		4.8	9.7			4.0
19	10.9	6.2	4.1	4.8	2.4	3.8						3.3
20	13.0	8.7	7.8	5.1	2.9	3.6						3.5
21	10.7	8.1	8.9	5.0	2.1	2.6						3.0
22	7.9	6.9	8.4	3.7	2.6	1.8						3.5
23	6.2	6.8	7.9	3.6	2.4	1.8						3.4
24	4.6	6.3	10.3	3.4	2.7	1.8						3.4
25	3.5	7.2	10.9	3.2	2.9	1.7			9.7			3.3
26	3.0	14.5	9.0	5.0	3.1	2.2			14.5			3.0
27	3.5	16.2	7.4	4.6	3.1	1.8			16.1			2.5
28	3.2	14.9	6.5	4.0	3.2	1.3			16.5			2.5
29	3.1		4.9	4.4	3.5	1.3			15.6			4.1
30	3.6		4.2	4.6	3.6	1.3						
31	3.8		4.8		3.6							
Mean	5.9	5.9	9.6	2.9	2.6				11.6	3.6		
WABASH RIVER—TERRE HAUTE, IND.												
[Flood stage, 16 feet]												
1	1.5	3.0	15.0	9.6	5.5	3.6	1.0	1.4	1.7	17.0	6.8	5.6
2	1.5	4.0	15.3	11.2	5.3	4.1	1.0	2.4	2.1	17.5	8.0	5.5
3	1.0	4.2	15.2	13.5	4.9	4.0	0.9	2.4	4.4	18.5	8.8	5.7
4	1.6	4.8	13.2	15.0	4.5	3.9	0.9	1.6	8.2	19.5	8.3	5.5
5	2.3	4.9	9.9	15.3	4.0	3.3	1.7	4.5	11.3	20.3	7.3	5.1
6	2.7	4.7	7.8	15.8	3.6	2.8	2.2	4.1	14.0	20.5	6.4	4.7
7	3.0	4.5	6.8	15.8	3.4	2.5	1.3	3.0	14.9	20.7	5.7	4.0
8	2.8	4.1	6.0	16.6	3.3	2.2	0.9	2.3	15.3	20.5	5.2	3.8
9	2.1	3.9	5.0	18.0	3.2	2.1	0.9	1.7	17.0	19.7	4.8	3.7
10	1.8	3.8	5.1	19.4	3.5	1.9	1.1	1.7	19.3	18.9	4.8	3.7
11	1.6	3.6	5.0	20.0	3.5	1.7	1.2	2.4	20.3	17.7	5.2	4.0
12	1.6	3.2	4.8	20.3	3.4	1.9	1.1	2.6	20.7	16.0	5.5	4.0
13	1.8	3.2	4.9	20.3	3.1	2.2	3.9	5.4	19.5	11.1	5.0	4.7
14	1.8	3.3	4.9	19.7	3.0	2.2	3.0	7.1	18.5	9.5	4.8	4.4
15	1.4	4.7	4.6	18.6	3.2	2.5	3.0	7.1	18.5	9.5	4.8	4.4
16	1.4	4.2	3.9	17.1	3.0	3.0	2.3	8.0	17.2	8.2	6.0	3.8
17	1.4	5.0	3.7	14.9	2.9	3.8	2.1	8.5	15.7	7.7	6.4	3.8
18	2.8	5.5	3.2	12.0	2.5	4.0	1.9	8.0	14.8	7.4	7.3	2.9
19	11.4	7.0	3.7	10.8	4.6	3.8	1.5	7.1	14.0	6.7	7.8	2.9
20	13.4	8.9	3.9	9.4	4.6	3.4	1.0	6.6	12.8	6.0	7.6	2.0
21	13.5	9.9	6.6	8.0	3.7	3.1	1.0	5.2	11.2	5.7	6.7	3.1
22	13.6	10.2	9.1	7.5	3.2	2.5	0.8	5.2	9.0	5.4	6.0	3.3
23	11.6	9.4	9.9	7.0	3.2	1.9	0.7	5.3	8.5	5.3	5.6	3.3
24	6.8	8.7	9.9	6.6	3.2	1.6	0.6	4.9	8.4	5.1	5.1	3.5
25	6.8	8.9	10.1	6.4	2.9	1.5	0.5	4.9	8.8	5.0	4.7	3.9
26	7.0	13.2	11.0	6.4	3.4	1.4	0.5	3.9	12.7	4.8	4.7	3.9
27	3.7	14.3	10.8	6.7	3.0	1.3	0.4	3.1	14.1	4.7	4.8	3.9
28	3.4	14.5	9.3	6.6	3.2	1.4	0.3	2.5	14.7	5.3	4.9	3.9
29	2.3		7.7	6.2	3.2	1.3	0.3	2.3	15.3	5.3	5.3	3.0
30	2.1		6.1	5.8	3.4	1.0	0.2	1.9	16.2	5.2	5.3	3.0
31	1.8		5.7		3.5		0.2	1.6		5.5		2.5
Mean	4.6	6.4	7.7	12.7	3.6	2.5	1.2	4.1	13.4	11.4	6.0	4.3
WABASH RIVER—VINCENNES, IND.												
[Flood stage, 14 feet]												
1	2.2	2.5	10.9	7.6	5.3	3.2				1.2		12.5
2	2.2	4.5	11.4	8.3	5.1	3.2				1.2		13.1
3	2.2	4.8	11.7	9.2	4.8	3.0				1.2	2.8	13.9
4	2.2	4.6	12.2	10.9	4.7	2.8				1.2		14.9
5	2.2	4.4	12.0	11.8	4.5	2.8				1.2		16.8
6	2.2	4.4	11.4	12.3	4.4	2.8				1.2		17.5
7	2.2	4.2	10.8	13.3	4.4	2.7				1.2	9.6	18.0
8	2.5	4.0	7.4	13.8	4.3	2.7				1.2	10.5	18.5
9	2.9	3.8	6.8	14.6	4.0	2.6				1.2	11.7	18.8
10	3.3	3.8	6.4	15.3	3.8	2.6				1.2	12.7	18.9
11	3.5	3.6	4.8	15.8	3.5	2.5				1.2	14.0	18.8
12	3.6	3.4	4.7	16.8	3.3	2.5				1.5	15.2	18.4
13	3.6	3.4	4.7	17.7	3.1	2.3				3.5	16.0	17.7
14	3.8	7.0	4.6	18.8	2.9	2.5				4.1	16.6	16.7
15	4.5	7.4	4.4	18.9	2.8	2.5				4.3	17.3	15.0
16	4.5	5.6	4.1	18.5	2.8	2.6				4.7	17.7	12.2
17	4.6	5.2	3.9	17.7	2.8	2.8				6.5	17.7	
18	4.0	5.0	3.7	16.5	2.6	3.0				7.4		
19	8.8	7.0	3.5	15.0	2.6	3.1				6.0		
20	10.4	7.7	4.4	12.8	4.2	3.0				4.9		
21	11.2	8.0	5.6	10.2	4.3	2.8				4.5		
22	10.8	8.6	6.4	8.4	3.2	2.7				4.0		
23	10.8	8.1	9.3	7.5	3.0	2.6				3.8		
24	8.2	8.5	9.1	6.7	2.8	2.6				3.6	10.6	
25	6.4	9.5	8.8	6.3	2.7	2.5				3.5	11.2	4.7
26	5.8	10.8	8.6	6.1	2.6	2.5				3.5	11.8	
27	5.0	11.1	8.6	6.1	2.6	2.5				3.5		
28	4.2		8.0	6.1	2.5	2.3				3.5		
29	3.3		7.5	5.6	2.5	2.2				3.5		
30	3.3		6.4		2.4					3.5		
31	2.5									3.5		
Mean	5.5	5.9	7.3	12.2	3.5	2.7				3.2	12.9	15.7
WABASH RIVER—MOUNT CARMEL, ILL.												
[Flood stage, 16 feet]												
1	4.5	5.5	16.1	11.3	7.6	4.1	2.1	1.3	4.3	14.0	9.7	7.6
2	4.5	7.5	16.6	11.6	7.1	4.2	2.0	1.3	4.2	14.7	10.4	8.0
3	4.5	9.4	16.9	12.5	7.0	4.3	2.0	3.1	3.7	15.5	11.0	7.7
4	3.9	10.6	16.9	14.0	6.5	4.4	2.0	3.9	5.0	16.4	11.3	7.5
5	3.7	11.2	15.9	14.6	6.1	4.7	2.0	3.7	6.0	17.4	11.1	7.0
6	3.5	11.2	14.2	15.2	5.8	4.7	2.0	3.5	7.5	18.2	10.9	6.8
7	4.0	11.0	12.1	17.0	5.5	4.7	2.2	4.4	10.3	19.0	9.8	5.9
8	4.3	10.3	10.7	17.0	5.3	4.1	2.4	4.4	12.0	19.8	8.5	5.8
9	4.5	9.5	9.5	18.1	5.0	3.8	2.5	4.3	12.8	20.4	7.6	5.6
10	4.2	8.7	8.6	19.0	4.8	3.						

Indexes to river stations—Continued

Name	River	Miscellaneous data	Gage readings	Name	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Marinette, Ariz.	Agua Fria	10		Plattsmouth, Nebr.	Missouri	7	126
Marked Tree, Ark.	St. Francis	7	123	Pleasant Hill, Ohio	Stillwater	5	92
Mars Bluff, S. C.	Peedee	2	45	Point Pleasant, W. Va.	Ohio	4	74
Marshall, N. C.	French Broad	4	105	Poplar Bluff, Mo.	Black	9	143
Marysville, Calif.	Yuba	11	169	Portage, Wis.	Wisconsin	7	119
Mauch Chunk, Pa.	Lehigh	2	35	Port Jervis, N. Y.	Delaware	2	84
Mayos Bar, Ga.	Coosa	3	55	Portland, Mich.	Grand	3	66
Mechanicville, N. Y.	Hudson	1	31	Portland, Oreg.	Willamette	11	177
Mehama, Oreg.	North Santiam	11	178	Portsmouth, Ohio	Ohio	4	75
Melones, Calif.	Stanislaus	11	171	Prairie du Chien, Wis.	Mississippi	6	110
Melville, La.	Atchafalaya	9	149	Prestonsburg, Ky.	Big Sandy, Levisa Fork	5	86
Memphis, Tenn.	Mississippi	7	115	Prospect, Ohio	Scioto	5	87
Mendota, Va.	Holston, North Fork	6	107	Pueblo, Colo.	Arkansas	8	134
Mentor, Kans.	Smoky Hill	8	130	Pueblo, Colo.	Fountain	8	
Merced Falls, Calif.	Merced	11		Quenemo, Kans.	Osage	7	112
Merrill, Iowa	Floyd	8	128	Quincy, Ill.	Mississippi	7	112
Merrill, Miss.	Pascagoula	3	58	Radford, Va.	Kanawan-New	8	84
Merrill, Wis.	Wisconsin	7	118	Ralston, Okla.	Arkansas	8	135
Miamisburg, Ohio	Miami	5	91	Randolph, Kans.	Big Blue	8	41
Middletown, Ohio	Miami	5	92	Randolph, Va.	Roanoke	2	41
Midland, Mich.	Tittabawassee	3	116	Reading, Pa.	Schuylkill	2	35
Milledgeville, Ga.	Oconee	2	49	Reads, Minn.	Mississippi	6	109
Milstead, Ala.	Tallapoosa	3	55	Red Bluff, Calif.	Sacramento	10	167
Mission, Tex.	Rio Grande	10	160	Red Wing, Minn.	Mississippi	6	109
Moncure, N. C.	Haw	2	44	Renick, W. Va.	Greenbrier	5	140
Monroe, La.	Ouachita	9	149	Reno Junction, Okla.	North Canadian	9	140
Monroe, Oreg.	Long Tom	11		Renovo, Pa.	Susquehanna, West Branch	3	38
Monroeville, Calif.	Sacramento	10	167	Resaca, Ga.	Oostanaula	3	56
Montezuma, Ga.	Flint	8	52	Rhineland, Wis.	Wisconsin	7	117
Montgomery, Ala.	Alabama	3	54	Richmond, Va.	James	2	41
Monticello, Miss.	Pearl	3	59	Rimoli, S. C.	Santee	11	45
Montpelier, Ohio	St. Joseph	3		Ringo Crossing, Tex.	Sulphur	9	148
Moorhead, Minn.	Red River of the North	9	150	Rio Grande, Tex.	Rio Grande	10	160
Morgan City, La.	Atchafalaya	9	149	Rio Vista, Calif.	Sacramento	11	168
Morris, Ill.	Illinois	7	121	River Junction, Fla.	Apalachicola	3	62
Mount Carmel, Ill.	Wabash	6	96	Riverside, Tex.	Trinity	10	153
Mount Holly, N. C.	Catawba	2	46	Riverton, Ala.	Tennessee	6	104
Mount Pleasant, Mich.	Chippewa	3	64	Riverton, Va.	Shenandoah	2	40
Mount Vernon, Ind.	Ohio	4	79	Rochester, Ind.	Tippecanoe	6	97
Munfordville, Ky.	Green	4	94	Rockland, Tex.	Neches	9	151
Muscatine, Iowa	Mississippi	6	112	Rockwood, Tenn.	Tennessee	6	102
Napoleon, Ohio	Maumee	3	61	Rocky Mount, N. C.	Tar	2	42
Narrows, Va.	Kanawha-New	5	84	Rogersville, Tenn.	Holston	10	166
Nashville, Tenn.	Cumberland	6	100	Rome, Ga.	Oostanaula	3	56
Natchez, Miss.	Mississippi	7	116	Rosenberg, Tex.	Brasos	10	155
Neosho Rapids, Kans.	Neosho	8	137	Rowlesburg, W. Va.	Cheat	4	70
Neuse, N. C.	Neuse	2	43	Sacramento, Calif.	Sacramento	11	168
New Berlin, N. Y.	Unadilla	2	37	Saginaw, Mich.	Saginaw	3	62
New Braunfels, Tex.	Guadalupe	10	157	Saginaw, Oreg.	Willamette, Coast Fork	11	177
New Madrid, Mo.	Mississippi	7	114	St. Charles, Mo.	Missouri	7	127
New Orleans, La.	Mississippi	7	117	St. John, Calif.	Stony Creek	11	169
Newport, Ark.	White	9	141	St. Joseph, Mo.	Missouri	7	126
Newport, Tenn.	Big Pigeon	6	106	St. Louis, Mo.	Mississippi	7	114
Newport, Wash.	Pend O'Reille	11	175	St. Marys, W. Va.	Ohio	4	72
New River, Tenn.	New	6	101	St. Paul, Minn.	Mississippi	6	109
Nicolaus, Calif.	Feather	11	169	Salem, Oreg.	Willamette	11	176
Niles, Kans.	Solomon	8		Salda, Colo.	Arkansas	8	134
Ninock, La.	Lake Bisteneau	9		Saltair, Utah	Great Salt Lake	10	158
Noblesville, Ind.	White, West Fork	6	98	San Antonio, Tex.	San Antonio	10	158
Norcross, Ga.	Chattahoochee	3	53	San Benito, Tex.	Rio Grande	10	161
North Platte, Nebr.	North Platte	8	129	San Marcel, N. Mex.	Rio Grande	10	159
North Platte, Nebr.	South Platte	8	129	Santa Rosa, N. Mex.	Pecos	10	159
Northville, N. Y.	Sacandaga	2	33	Sapinero, Colo.	Gunnison	10	164
Norway, Ind.	Tippecanoe	6	97	Savannah, Tenn.	Tennessee	6	104
Ogden, Kans.	Kansas	8		Schenectady, N. Y.	Mohawk	2	33
Okay, Okla.	Verdigris	9	139	Sedgwick, Kans.	Little Arkansas	10	168
Oklahoma City, Okla.	North Canadian	9		Selma, Ala.	Alabama	3	54
Omaha, Nebr.	Missouri	7	126	Seymour, Ind.	White, East Fork	6	97
Oneonta, N. Y.	Susquehanna	2		Sharon, Pa.	Shenango	4	80
Orange, Tex.	Sabine	9	151	Shawneetown, Ill.	Ohio	4	79
Oregon City, Oreg.	Willamette	11	176	Sherburne, N. Y.	Chenango	2	37
Oroville, Calif.	Feather	11	168	Shields, Mich.	Tittabawassee	3	63
Oscola, Mo.	Osage	8	132	Shoals, Ind.	White, East Fork	6	98
Oswego, Kans.	Neosho	8	138	Shreveport, La.	Red	9	147
Ottawa, Kans.	Osage	8		Shubuta, Miss.	Chickasawhay	3	147
Ottumwa, Iowa	Des Moines	7	120	Sidney, Ohio	Miami	6	90
Overton, Nebr.	Platte	8	128	Stimmesport, La.	Atchafalaya	9	
Owosso, Mich.	Shiawassee	3	62	Sioux City, Iowa	Missouri	7	125
Ozark Beach, Mo.	White	9	141	Sissonville, W. Va.	Pocahontas	2	43
Pacific, Mo.	Meramec	7	123	Smithfield, N. C.	Neuse	2	43
Paducah, Ky.	Ohio	4	80	Smithville, Tex.	Colorado	10	156
Paonia, Colo.	Gunnison, North Fork	10	164	Solomon, Kans.	Smoky Hill	10	130
Parker, Ariz.	Colorado	10	163	Speers Ferry, Va.	Clinch	6	107
Parkersburg, W. Va.	Ohio	4	73	Springbank, Ark.	Red	9	147
Parkersburg, Pa.	Allegheny	4	68	Springfield, Ohio	Mad	5	92
Patterson, Ark.	Catche	9	143	Steelville, Mo.	Meramec	7	122
Pearl, Ill.	Illinois	7	122	Stuyvesant, N. Y.	Hudson	1	32
Pearl River, La.	West Pearl	3	60	Sunbury, Pa.	Susquehanna	2	36
Pecos, Tex.	Pecos	10		Swan Lake, Miss.	Tallahatchie	9	145
Pelzer, S. C.	Saluda	2	47	Tarboro, N. C.	Tar	2	42
Pensacola, Okla.	Neosho	8		Terre Haute, Ind.	Wabash	8	96
Peoria, Ill.	Illinois	7	121	Tescott, Kans.	Ralston	8	
Peru, Ill.	Illinois	7	121	The Dalles, Oreg.	Columbia	11	174
Phillipsburg, N. J.	Delaware	2	34	Three Links, Oreg.	Clackamas	11	
Phoenix, Ariz.	Salt	10	166	Three Rivers, Tex.	Nueces	10	158
Piedra, Calif.	Kings	11	170	Tiffin, Ohio	Sandusky	3	61
Pierre, S. Dak.	Missouri	7	124	Tippecanoe City, Ohio	Miami	5	91
Pikeville, Ky.	Big Sandy, Levisa Fork	5	86	Tomahawk, Wis.	Spirit	11	119
Pine Bluff, Ark.	Arkansas	8	137	Topeka, Kans.	Kansas	8	129
Piqua, Ohio	Miami	5	90	Topock, Ariz.	Colorado	10	162
Pittsburgh, Pa.	Ohio	4	71				

Source: Indiana American Water Co. Terre Haute IN 28.VIII.90
 Wabash River

CREST STAGES FOR MAJOR FLOODS WHICH HAVE OCCURRED AT TERRE HAUTE, INDIANA

Year	Stage	Date
1875	26.7	Aug. 3
1904	25.7	Mar. 27
1908	20.0	May 10
1913	31.3 *	Mar. 27
1916	23.0	Feb. 2
1922	24.4	Apr. 19
1927	20.9	May 30
1930	24.0	Jan. 16
1933	20.1	Mar. 25
1933	25.1	May 15
1937	21.3	Jan. 16
1938	21.7	Apr. 13
1939	24.8	Mar. 16
1943	30.5 ‡	May 20
1944	21.5	Apr. 16
1948	21.2	Apr. 28
1949	20.4	Jan. 23
1950	25.7	Jan. 16
1950	21.8	Feb. 18
1950	20.0	Apr. 9
1951	22.8	Feb. 23
1957	22.8	June 29
1958	27.7 ‡	June 15
1959	24.9	Feb. 15
1960	18.7	June 25
1961	21.3	Apr. 28
1962	19.2	Mar. 26
1963	20.6	Mar. 10
1985	26.5	Oct 27

Note: At 17.4' Stage Water Seeps into Basement P.f.
 At 21.0' Stage 1/2" Necessary to Install Bulbhead
 In Lowway of Basement Penetration Bolters
 & Stacks

REFERENCE
DO NOT CIRCULATE

WABASH RIVER AT TERRE HAUTE, IND.

Table No. 2

Wabash River

Community Affairs File

Flood Occurrences above 17.5 ft. Stage U.S. Weather
Bureau Gage and Corresponding Stages and Discharges
at U. S. Geological Survey Gage - June 1, 1901 to Sept. 30, 1943.

<u>Date</u>	<u>USWB G.H.</u>	<u>USGS G.H.</u>	<u>Discharge</u>
July 4, 1902	19.1	21.5 + 2.4	58,600
Mar. 6, 1903	18.8	21.2 + 2.4	56,300
Apr. 17, 1903	20.0	22.3 + 2.3	65,500
Jan. 26, 1904	20.7	22.9 + 2.2	71,800
Feb. 12, 1904	17.6	20.0 + 2.4	46,900
Mar. 5, 1904	17.9	20.4 + 2.5	49,700
Mar. 27, 1904	26.1	26.6 + 1.5	120,000
May 18, 1905	20.4	22.6 + 2.2	69,100
Jan. 26-27, 1906	20.0	22.3 - 2.3	65,500
Mar. 31-Apr. 1, 1906	19.0	21.4 + 2.4	57,800
Jan. 10, 1907	17.6	20.1 + 2.5	47,600
Jan. 23, 1907	24.7	26.3 + 1.6	115,000
Feb. 20, 1908	18.9	21.3 + 2.4	57,000
Mar. 10-11, 1908	22.9	24.6 + 1.7	94,100
May 10, 1908	20.0	22.3 + 2.3	65,500
Feb. 28-Mar. 1, 1909	17.8	20.3 + 2.5	49,000
Jan. 22-23, 1910	19.3	21.7 + 2.4	60,000
Mar. 22, 1912	19.2	21.6 + 2.4	59,300
Apr. 3-4, 1912	19.7	22.0 + 2.3	63,100
Jan. 25, 1913	21.2	23.4 + 2.2	76,500
Mar. 27, 1913	31.3	31.1 - 0.2	205,000*
Jan. 9, 1916	18.5	20.9 + 2.4	54,000
Jan. 17, 1916	17.7	20.2 - 2.5	48,300
Feb. 2, 1916	23.0	24.9 + 1.9	95,200

*- Published 200,000

Vigo County Public Library

FLOOD CONTROL - STATISTICS

<u>Date</u>	<u>USWP G.H.</u>	<u>USCS G.H.</u>		<u>Discharge</u>
Feb. 17, 1918	19.5	21.8	+ 2.3	61,600
Dec. 27, 1918	19.0	21.4	+ 2.4	57,800
Mar. 21, 1919	22.4	24.4	+ 2.0	88,600
Apr. 24, 1920	21.5	23.6	+ 2.1	79,500
Apr. 2, 1921	17.5	20.0	+ 2.5	46,900
Nov. 24-25, 1921	18.9	21.3	+ 2.4	57,000
Mar. 16, 1922	19.7	22.0	+ 2.3	63,100
Apr. 4, 1922	21.5	23.6	+ 2.1	79,500
Apr. 19, 1922	24.4	26.0	+ 1.6	112,000
Mar. 20, 1923	19.7	22.0	+ 2.3	63,100
Apr. 2, 1924	20.0	22.3	+ 2.3	65,500
Dec. 24, 1924	19.4	21.8	+ 2.4	60,800
Mar. 19, 1925	20.9	23.1	+ 2.2	73,600
Apr. 12, 1926	20.4	22.6	+ 2.2	69,100
Sept. 12, 1926	20.7	22.9	+ 2.2	71,800
Oct. 6, 1926	20.7	22.9	+ 2.2	71,800
Feb. 6, 1927	18.6	21.0	+ 2.4	54,800
Mar. 25, 1927	20.7	22.9	+ 2.2	71,800
May 23, 1927	20.1	22.4	+ 2.3	66,400
May 30, 1927	20.9	23.1	+ 2.2	73,600
Dec. 5, 1927	21.2	23.4	+ 2.2	76,500 ^a
May 20, 1929	19.3	21.63	+ 2.3	59,400 ^a
Jan. 16, 1930	23.9	25.63	+ 1.7	105,000 ^b
Jan. 23, 1932	17.6	20.08	+ 2.5	47,600 ^c
Mar. 25, 1933	20.1	22.30	+ 2.2	65,600

*- Published 78,600

a- " 58,800

b- " 104,000

c- " 47,200

<u>Date</u>	<u>USWB G.H.</u>	<u>USGS G.H.</u>		<u>Discharge</u>
May 15, 1933	25.1	26.53	+1.4	119,000 ^a
May 8-9, 1935	18.1	20.70	+2.6	52,100 ^a
Mar. 1, 1936	23.6	25.56	+1.9	105,000 ^b
Nov. 8-9, 1936	18.2	20.78	+2.6	52,900
Jan. 16, 1937	21.3	23.53	+2.2	77,700 ^c
Mar. 22, 1938	17.6	20.08	+2.5	47,600
Apr. 1-2, 1938	19.5	22.07	+2.6	63,800
Apr. 13, 1938	21.7	23.75	+2.1	81,200 ^d
July 4, 1938	20.9	23.05	+2.1	72,300
Mar. 16, 1939	24.8	26.48	+1.7	119,000 ^e
Apr. 20-21, 1939	22.0	24.14	+2.1	84,800
Feb. 11, 1942	18.5	21.07	+2.6	55,300
May 20, 1943	30.5	30.50	0	189,000
May 1946	May 1945	Jan 1949	Jan 1950	Jun 1957

Jun-July 1958

MAJOR FLOODS 1828 TO 1901 (Incomplete)

May 1961

1828	28.3	29.0	+0.7	159,000
Jan 1847				
April 1858	26.6	27.7	+1.1	138,000
Feb. 1867	25.5	26.7	+1.4	123,000
Aug. 1875	26.7	27.8	+1.1	139,000
Feb. 18, 1883	27.7	28.6	+0.9	151,000

Jan 1890 22'
 March 1890 23'
 March 1897 23'
 March 1898

a- Published 106,000
 b- 49,400
 c- 95,600
 d- 74,400
 e- 77,400
 107,000

May 1968

Feb 24, 1971 18'

NOTE:- U.S.G.S. gage readings as shown prior to May 20, 1929 are computed from gage height relation curve based on comparative reading through May 1943 flood and flood crests since May 20, 1939.

WABASH RIVER STAGES

1. I.S.U. Climate Lab has information on river stages from various sources, but does not retain the Weather Service records. In the Science Library, there is a CD Rom data base with info on river stages from various records but does not know how far back data goes.
2. The Indiana-American Water Co. Plant (232-3454) does keep the river stages records and has them for 10 or 15 years. There is no public access because the records contain other information too. If you call them with specific dates they will give you river stages for those dates. Man at water company said NOAA Weather Service at Indianapolis has records for past 100 years and they have a toll free number but he doesn't know it. (Chuck Adamson)
3. Indianapolis telephone directory does not list NOAA (National Oceanic and Atmospheric Ass.) but does list National Weather Service (317-248-4044), but no toll free number. Federal Information Center (1-800-347-1997) does not list NOAA in Indianapolis either, but does list National Weather Service with same number as above. Closest regional NOAA office is in Kansas City MO (816-426-5400).
Roger Canyon, National Weather Service, 317-248-4043 (Indpls)

August 24, 1990

REFERENCE
DO NOT CIRCULATE

Community Affairs File

Wabash River

Community Affairs Bldg.

RIVER STAGES AT 7:00 AM
Vigo County Public Library 1983

REFERENCE
DO NOT CIRCULATE

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17.8	4.3	4.1	9.6	9.3	5.8	8.6	2.0	1.0	0.7	2.3	8.0
2	17.1	4.5	4.0	9.4	16.1	5.6	9.7	1.5	0.8	0.7	2.0	7.5
3	16.0	8.9	3.8	12.5	18.3	5.4	7.6	1.3	0.8	0.7	2.0	7.1
4	14.3	10.9	3.7	14.4	20.5	6.1	7.4	1.3	0.8	0.7	2.0	7.6
5	12.4	10.9	3.8	15.1	22.2	5.8	5.8	1.3	0.7	0.7	2.0	8.1
6	11.5	10.3	3.7	15.7	22.9	7.3	5.8	1.3	0.5	0.9	2.0	8.4
7	10.8	10.0	4.0	16.0	21.9	9.0	5.8	1.2	0.5	1.0	1.9	10.9
8	10.2	8.9	4.0	15.9	20.0	7.8	5.8	1.2	0.5	0.9	1.6	12.2
9	9.3	7.6	4.1	15.3	18.1	7.5	5.8	1.1	0.5	0.7	1.7	12.5
10	8.5	6.7	4.2	14.6	17.5	7.0	5.8	1.1	0.5	0.8	1.8	13.6
11	7.8	6.1	4.2	13.6	16.8	6.1	3.3	1.1	0.5	0.8	1.7	14.0
12	7.1	5.5	4.0	12.6	15.2	5.6	3.0	1.1	0.5	0.7	1.8	15.4
13	6.7	5.2	3.9	12.4	14.0	5.0	2.6	1.1	0.8	0.7	1.8	16.2
14	6.3	5.1	3.6	14.7	13.1	4.6	2.4	1.0	0.8	0.8	1.7	16.9
15	6.0	4.9	3.5	16.1	13.5	4.3	2.3	1.0	0.8	0.8	1.7	17.5
16	5.9	4.9	3.4	16.5	13.1	4.3	2.0	1.0	0.8	0.8	3.0	17.7
17	6.0	4.7	3.3	16.8	12.4	4.5	2.0	1.0	0.8	0.8	3.2	17.8
18	6.0	4.9	3.2	17.1	11.5	4.1	2.0	1.1	0.8	0.8	3.0	17.2
19	5.8	5.1	3.1	16.9	10.8	4.0	1.9	1.1	0.8	0.8	2.8	16.8
20	5.2	5.1	3.5	16.1	10.7	4.3	1.8	1.2	0.4	0.8	2.8	12.5
21	4.7	5.4	6.0	14.8	10.5	4.8	1.7	1.1	0.6	1.5	2.9	10.8
22	4.4	5.4	6.0	12.8	10.5	5.3	1.7	1.1	0.8	1.2	2.6	10.3
23	4.4	5.3	5.2	11.0	10.6	4.8	1.7	1.2	0.8	3.2	2.6	9.2
24	4.8	5.3	4.7	9.7	10.9	3.9	1.7	1.2	0.8	5.1	3.0	8.5
25	4.8	5.0	5.3	8.9	10.4	3.7	1.3	1.1	0.8	5.2	4.0	5.1
26	4.5	4.8	5.2	7.9	10.0	3.9	1.3	1.1	0.8	4.0	4.5	4.1
27	4.4	4.7	5.5	7.1	9.0	4.1	1.3	1.1	0.8	2.5	4.3	3.9
28	4.3	4.4	6.8	6.8	7.9	4.3	1.3	1.0	0.8	3.0	6.3	4.0
29	4.2		9.5	7.1	7.2	4.8	1.3	1.0	0.8	2.4	7.4	4.3
30	4.2		11.0	7.9	6.9	5.5	1.3	1.0	0.8	2.5	8.3	4.4
31	4.3		10.9		6.2		1.3	1.0		2.5		4.3
AVG.	7.7	6.2	4.9	12.9	13.5	5.3	3.5	1.2	0.7	1.6	3.0	10.5
MAX.	17.8	10.9	11.0	17.1	22.9	8.0	7.6	1.3	0.8	5.2	8.3	17.8
MIN.	4.2	4.4	3.1	6.8	6.2	3.7	1.3	1.0	0.4	0.7	1.7	3.8
ANNUAL AVG.							5.7					
ANNUAL MAX.							22.9					
ANNUAL MIN.							0.4					

RIVER STAGES AT 7:00 AM
1984

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.3	2.2	6.8	18.1	12.0	17.0	3.7	2.3	1.0	1.0	3.0	6.8
2	4.5	2.2	6.3	17.3	10.7	15.2	3.0	2.0	1.0	1.0	4.9	6.1
3	4.9	3.0	5.9	16.5	9.2	13.3	2.9	1.9	1.1	1.0	4.9	6.2
4	4.6	4.7	5.7	16.0	9.2	10.4	3.0	2.1	1.0	1.0	4.5	5.4
5	4.2	5.8	5.9	16.6	8.0	9.0	4.5	3.0	1.1	0.9	3.9	5.0
6	4.2	6.2	5.9	16.5	7.9	8.0	4.4	2.7	1.0	0.9	3.8	4.3
7	4.1	5.3	5.8	15.8	8.1	7.2	3.4	2.0	1.0	1.0	3.4	3.6
8	4.0	5.0	5.7	15.1	7.3	6.6	3.3	2.3	1.1	1.0	3.4	3.0
9	4.0	5.2	5.3	14.6	6.9	6.0	3.5	2.4	1.0	1.0	3.3	3.4
10	3.9	5.5	5.1	14.3	6.5	5.6	4.3	2.9	1.1	1.0	5.3	3.5
11	3.8	7.0	5.0	14.0	6.0	5.4	4.7	2.2	1.0	1.0	5.8	3.8
12	3.6	10.2	5.0	13.4	5.8	5.0	4.1	2.0	1.0	1.2	5.3	3.7
13	3.4	10.3	4.8	12.8	5.4	4.6	3.4	1.8	1.0	1.4	5.1	3.7
14	3.3	16.4	4.6	12.0	5.8	4.4	2.7	1.7	1.0	1.2	6.8	4.3
15	3.2	17.7	4.7	11.1	5.5	4.8	2.5	1.6	1.1	1.3	7.5	3.9
16	3.0	18.6	9.3	10.5	5.2	4.8	2.2	1.4	1.0	1.2	6.9	6.7
17	2.8	19.2	14.6	9.9	5.5	4.7	2.1	1.3	1.0	1.1	6.2	7.7
18	2.8	19.1	15.9	10.6	5.0	4.4	1.8	1.0	1.0	1.3	5.4	8.2
19	2.6	18.7	16.8	11.7	4.7	4.3	1.6	1.0	1.0	2.6	5.1	7.9
20	2.6	18.2	17.6	11.9	4.4	4.0	1.7	1.0	1.0	2.7	4.9	7.0
21	2.4	17.5	18.6	12.0	5.0	3.7	1.8	1.0	1.4	4.5	4.5	6.0
22	2.0	17.0	19.1	14.7	10.3	3.9	1.7	1.0	1.4	6.7	4.3	6.0
23	2.2	16.0	19.4	16.7	13.3	3.9	1.7	1.0	1.7	5.4	4.2	6.1
24	2.3	14.6	19.5	17.0	14.2	4.5	1.7	1.0	1.2	4.9	3.7	6.1
25	2.1	13.2	19.4	16.8	14.5	4.9	1.4	1.0	1.2	4.9	3.5	6.1
26	2.2	16.8	19.5	16.4	15.0	4.8	1.4	1.0	1.1	4.6	3.5	6.6
27	2.3	9.7	19.6	15.7	15.9	4.4	5.0	1.0	1.1	3.0	3.4	6.2
28	2.4	8.2	19.8	15.0	16.9	4.2	3.9	1.0	1.0	3.6	7.2	5.6
29	2.4	7.2	19.5	14.1	17.5	4.2	3.8	1.0	1.0	3.2	8.6	5.0
30	2.4		13.5	13.3	18.0	4.2	3.2	1.0	1.0	2.9	7.4	6.6
31	2.4		13.8		17.5		2.8	1.0		2.9		9.7
AVG.	3.2	11.1	11.9	14.3	9.6	6.2	2.9	1.6	1.1	2.3	5.0	5.6
MAX.	4.9	19.2	19.8	17.0	18.0	13.3	5.0	3.0	1.7	6.7	8.6	9.7
MIN.	2.0	5.0	4.6	9.9	4.4	3.7	1.4	1.0	1.0	0.9	3.3	3.0
ANNUAL AVG.							6.5					
ANNUAL MAX.							19.9					
ANNUAL MIN.							0.9					

RIVER STAGES AT 7:00 AM
1985

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.5	3.3	24.0	14.7	4.8	3.8	2.3	1.4	2.9	1.3	2.5	19.8
2	16.6	3.2	22.9	14.7	6.5	3.6	2.1	1.1	2.8	1.3	2.8	19.4
3	17.3	3.2	22.2	14.9	7.5	3.4	2.4	1.1	1.9	1.3	3.2	18.8
4	17.6	2.8	21.3	15.0	6.8	3.1	3.2	1.3	1.7	1.7	3.8	18.1
5	17.8	2.8	20.8	15.4	6.3	3.0	4.0	1.6	1.8	1.8	4.0	17.9
6	17.3	2.7	20.5	17.3	5.6	2.9	4.1	2.6	1.8	1.9	3.6	16.3
7	16.9	2.5	20.3	17.6	5.2	3.0	3.1	2.3	1.7	1.5	3.1	15.3
8	16.0	2.5	20.2	17.7	5.1	3.0	2.4	2.8	1.4	1.2	2.8	14.4
9	16.3	2.4	20.2	17.8	4.8	2.8	2.1	2.7	1.3	1.1	2.9	13.7
10	13.0	2.3	20.2	17.9	4.4	2.7	2.0	2.4	1.4	1.1	2.8	13.3
11	11.3	2.3	19.8	17.7	4.3	2.6	3.3	1.9	1.4	1.0	4.8	14.7
12	9.9	2.5	20.2	17.4	4.0	4.1	2.5	1.1	1.3	0.9	4.4	19.6
13	8.1	2.5	20.6	16.0	3.9	3.5	2.0	1.6	1.3	0.9	5.6	21.1
14	6.5	2.5	20.5	13.9	3.8	3.4	1.9	1.5	1.2	0.9	8.0	20.9
15	6.1	2.5	20.2	12.3	4.2	3.7	1.8	2.0	1.2	0.9	9.3	20.7
16	5.6	2.5	19.7	11.5	4.4	3.9	1.8	3.5	1.5	0.9	10.2	20.3
17	5.4	2.5	18.8	10.9	4.3	5.2	2.3	4.2	1.4	0.9	12.6	19.6
18	5.5	2.8	18.2	10.0	4.6	5.1	2.4	5.4	1.4	1.3	12.6	18.8
19	5.4	3.1	17.5	9.3	4.3	5.4	3.0	4.8	1.3	1.6	15.2	17.9
20	5.0	3.5	16.7	8.7	4.0	5.4	2.6	3.6	1.3	1.7	18.6	16.6
21	2.5	4.4	15.4	8.3	3.9	5.3	2.2	2.9	1.3	1.9	20.6	14.7
22	2.7	14.6	15.1	7.8	3.6	4.6	2.6	2.3	1.3	3.0	20.8	13.2
23	2.9	19.2	13.8	7.3	3.4	3.9	1.7	2.1	1.2	4.1	20.6	12.5
24	3.0	22.0	13.5	6.8	3.4	3.4	1.5	1.9	1.2	3.8	20.2	12.2
25	3.4	23.1	11.3	6.8	3.2	3.2	1.4	2.0	1.3	3.3	19.7	11.5
26	3.7	26.0	10.3	6.6	3.2	2.8	1.4	1.9	1.2	2.9	18.9	9.0
27	3.6	25.4	9.4	6.1	3.0	2.6	1.3	1.7	1.1	2.7	18.7	8.5
28	3.5	25.9	8.9	5.6	2.9	2.4	1.1	1.6	1.1	2.7	19.9	7.8
29	3.3		8.4	5.3	2.8	2.4	1.1	1.4	1.1	2.7	20.4	7.2
30	3.5		10.0	5.1	3.0	2.4	1.1	1.6	1.1	2.6	20.1	6.7
31	3.5		13.7		3.2		1.1	4.9		2.5		6.4
AVG	8.6	7.7	17.2	11.9	4.3	3.6	2.2	2.4	1.5	1.9	11.1	15.1
MAX	17.8	26.0	22.2	17.9	7.5	5.4	4.1	5.4	1.9	4.1	20.8	21.1
MIN	2.5	2.3	8.4	5.1	2.9	2.4	1.1	1.1	1.1	0.9	2.8	6.4
ANNUAL AVG							7.2					
ANNUAL MAX							26.0					
ANNUAL MIN							0.9					

RIVER STAGES AT 7:00 AM
1986

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.4	3.2	8.6	7.1	5.8	13.8	4.8	4.8	1.1	4.4	4.5	6.9
2	6.2	3.9	7.8	6.5	8.8	11.0	8.0	4.1	1.1	5.7	4.3	7.2
3	6.2	6.0	7.3	6.3	12.5	8.4	10.3	3.5	1.1	5.4	3.9	7.1
4	6.1	5.5	6.9	5.7	13.1	6.7	11.0	3.6	1.0	8.9	3.7	7.0
5	6.1	9.6	6.6	5.4	12.4	5.6	10.8	2.7	1.0	8.9	3.6	7.0
6	5.8	12.8	6.4	5.4	10.5	7.6	10.2	2.5	0.9	7.0	3.5	7.3
7	5.5	14.5	9.1	5.3	9.4	13.4	8.5	2.3	0.9	8.2	3.4	7.3
8	5.2	14.9	11.7	5.1	10.4	15.8	6.9	2.2	0.9	8.3	3.1	6.5
9	5.0	14.7	12.3	4.7	13.1	16.9	5.7	2.0	0.9	8.4	3.0	5.7
10	4.9	13.5	11.8	4.5	11.6	17.5	5.0	1.9	0.7	8.9	3.1	5.1
11	4.9	12.4	10.7	4.4	8.7	17.6	4.9	1.9	0.8	7.3	3.1	5.4
12	4.9	10.8	9.9	4.0	7.2	17.6	6.2	1.8	0.8	6.7	3.1	6.0
13	5.0	9.3	12.7	4.0	6.3	17.1	8.9	1.9	0.8	5.4	3.1	6.6
14	4.9	8.2	14.2	3.9	5.9	15.8	10.5	1.9	1.0	4.7	3.1	6.2
15	4.7	7.7	14.9	3.5	7.9	13.8	11.9	1.8	0.9	4.3	2.5	5.4
16	4.4	7.1	15.2	3.9	9.0	12.4	11.9	1.7	0.8	3.9	2.8	5.1
17	4.3	6.7	15.5	3.8	7.6	12.5	10.2	1.6	0.9	3.9	2.9	4.7
18	4.3	6.7	15.3	3.6	7.2	12.9	9.0	1.6	0.8	3.9	2.6	4.3
19	4.7	7.0	15.8	3.5	6.9	12.6	8.6	1.4	0.9	3.8	2.8	4.1
20	5.5	7.7	15.5	3.4	6.8	11.6	8.5	1.4	1.1	3.6	2.4	3.9
21	6.6	10.2	15.4	3.5	6.7	10.5	7.9	1.3	1.5	3.6	2.5	3.6
22	7.0	11.9	16.2	3.4	7.0	9.3	7.0	1.2	2.3	3.1	2.6	3.5
23	7.6	12.5	16.1	3.3	6.8	8.1	5.6	1.2	2.0	2.9	2.2	3.3
24	7.4	12.5	15.8	3.2	6.3	7.6	4.2	1.2	2.0	2.9	2.9	3.1
25	6.6	12.2	14.9	3.1	5.3	6.8	3.7	1.1	2.8	2.9	3.6	3.1
26	6.1	11.4	13.4	3.1	5.0	6.1	4.0	1.1	2.7	3.1	3.9	3.3
27	5.7	10.4	12.1	3.6	5.8	5.2	3.5	1.1	2.4	3.4	4.0	3.4
28	4.8	9.3	11.0	3.6	6.1	4.5	3.4	1.0	3.0	3.6	4.4	3.4
29	3.1		10.1	3.5	5.9	4.2	4.9	1.1	3.2	4.0	5.6	3.4
30	2.9		9.2	3.6	9.5	4.3	4.5	1.0	2.9	4.4	6.6	3.5
31	3.1		7.9		13.5		4.4	1.0		4.5		3.6
AVG	5.4	9.7	12.0	4.3	8.3	10.9	7.3	1.9	1.4	5.2	3.4	5.0
MAX	7.6	14.9	16.5	6.3	13.5	17.6	12.9	3.6	3.2	8.9	6.6	7.3
MIN	2.9	6.7	6.4	3.1	5.0	4.2	3.4	1.0	0.7	2.9	2.2	3.1
ANNUAL AVG.							6.3					
ANNUAL MAX.							17.6					
ANNUAL MIN.							0.7					

RIVER STAGES AT 7:00 AM
1987

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
1	3.4	3.9	4.3	2.3	3.2	3.8	2.1	1.9	3.7	1.8	1.6	6.9
2	3.2	4.2	5.0	2.3	2.9	5.9	6.1	3.7	2.8	1.9	1.6	7.1
3	3.1	4.7	6.3	2.2	2.7	7.5	5.3	3.1	2.2	1.8	1.6	6.9
4	3.0	5.8	8.3	2.2	2.8	9.9	3.8	3.1	1.8	1.7	1.5	6.3
5	2.9	6.9	8.9	2.2	2.5	8.8	4.5	2.7	1.6	1.6	1.5	5.6
6	2.9	8.1	8.0	2.1	2.3	7.2	6.8	2.2	1.3	1.5	1.4	4.8
7	2.8	10.1	6.6	2.2	2.3	6.8	12.2	1.8	1.2	1.5	1.3	4.2
8	2.8	10.3	5.9	2.1	2.3	6.8	7.6	1.6	1.0	1.3	1.4	3.9
9	2.8	10.0	5.8	2.0	2.2	6.4	5.4	1.3	1.0	1.4	1.3	4.5
10	2.8	9.2	5.8	1.9	2.2	4.9	5.7	1.3	1.0	1.3	1.2	6.6
11	2.7	8.7	5.2	1.9	2.1	4.0	4.3	1.2	1.0	1.3	1.3	7.4
12	2.9	7.6	4.6	2.0	2.0	3.5	3.3	1.5	1.0	1.4	1.5	7.5
13	2.8	7.7	4.1	2.1	2.1	3.3	2.8	1.4	0.8	1.2	1.4	6.8
14	2.6	7.7	3.8	3.1	2.4	3.9	3.0	1.3	0.8	1.3	1.3	5.8
15	2.6	8.1	3.6	4.5	2.3	3.7	2.6	1.3	0.8	1.2	1.3	5.6
16	3.3	7.7	3.5	6.8	2.1	3.1	3.0	0.9	0.8	1.3	1.3	9.3
17	3.2	6.6	3.5	7.8	2.0	3.1	2.7	0.9	0.8	1.3	1.2	12.5
18	5.4	5.5	3.3	9.3	1.9	2.7	2.9	0.9	0.8	1.2	1.4	13.8
19	6.7	4.9	3.1	9.0	1.8	2.3	3.1	0.9	0.9	1.3	1.6	13.7
20	6.2	4.4	3.1	7.8	2.8	2.1	2.8	0.8	1.0	1.2	1.5	13.0
21	4.4	4.4	3.0	6.7	6.1	3.0	2.3	0.7	1.0	1.3	1.3	14.2
22	3.7	4.4	3.0	5.7	8.8	3.8	1.9	0.6	1.0	1.3	1.3	15.0
23	3.6	4.1	2.9	5.1	8.1	3.1	1.7	0.5	0.9	1.3	1.3	15.5
24	4.0	4.0	2.8	5.1	6.8	3.8	1.4	0.5	1.0	1.3	1.1	15.9
25	4.1	3.7	2.7	5.1	6.4	3.1	1.4	0.5	1.0	1.4	1.4	15.3
26	4.1	3.4	2.7	4.7	6.1	2.7	1.2	0.5	1.1	1.3	1.7	14.4
27	4.1	3.4	2.6	4.3	5.1	2.7	1.2	0.6	1.1	1.5	2.8	13.2
28	4.1	3.4	2.6	4.0	4.4	2.3	1.2	1.1	1.1	1.4	4.0	12.1
29	4.1		2.6	3.7	4.0	1.9	1.2	4.0	1.2	1.5	5.2	14.1
30	4.1		2.5	3.4	3.7	1.7	1.5	5.9	1.4	1.5	5.9	14.9
31	3.7		2.4		3.9		2.0	4.7		1.5		15.2
AVG	3.6	6.2	4.3	4.1	3.6	4.3	3.5	1.7	1.2	1.4	1.8	10.1
MAX	6.7	10.3	8.9	9.3	8.8	9.9	12.2	5.9	2.2	1.8	5.9	15.9
MIN	2.6	3.4	2.4	1.9	1.8	1.7	1.2	0.5	0.8	1.2	1.1	3.9
ANNUAL AVG.							3.8					
ANNUAL MAX.							15.9					
ANNUAL MIN.							0.5					

RIVER STAGES AT 7:00 AM
1988

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.7	6.3	7.1	13.0	3.7	1.7	0.3	0.3	0.2	0.4	0.1	3.7
2	12.5	14.0	6.4	14.2	3.6	1.6	0.3	0.3	0.1	0.4	1.0	3.6
3	10.5	14.2	6.2	13.5	3.3	1.5	0.3	0.3	0.1	0.4	0.9	3.4
4	8.4	13.8	7.8	12.5	3.2	1.5	0.4	0.3	0.1	0.4	1.0	3.2
5	7.2	11.5	6.7	11.9	3.0	1.5	0.4	0.6	0.1	0.6	1.1	3.0
6	5.8	10.7	6.4	11.4	3.4	1.3	0.3	0.6	0.1	0.5	1.2	2.9
7	4.5	12.8	6.4	14.4	2.9	1.3	0.3	0.5	0.2	0.4	1.2	2.7
8	3.6	7.6	6.5	15.6	2.8	1.2	0.3	0.5	0.2	0.4	1.5	2.5
9	3.7	7.2	7.4	16.1	2.7	1.1	0.2	0.4	0.1	0.4	1.5	2.5
10	3.9	6.7	8.7	16.3	2.8	0.9	0.1	0.4	0.1	0.4	1.6	2.4
11	4.0	6.4	10.2	16.6	2.7	1.0	0.3	0.2	0.1	0.4	2.8	2.2
12	3.9	5.9	9.7	16.7	2.6	0.9	0.3	0.3	0.3	0.3	2.7	2.1
13	4.0	5.6	10.0	16.2	2.5	0.9	0.4	0.2	0.5	0.3	2.7	2.0
14	4.0	4.0	9.7	14.8	2.5	0.9	0.2	0.2	0.3	0.4	3.0	1.8
15	3.9	4.3	8.9	12.2	2.3	0.9	0.2	0.2	0.3	0.4	3.0	1.8
16	3.7	5.8	7.4	10.6	2.1	0.8	0.1	0.1	0.3	0.4	3.1	1.8
17	3.7	7.0	6.3	9.1	2.1	0.8	0.2	0.1	0.2	0.4	6.3	1.8
18	4.5	7.3	5.8	7.7	2.0	0.8	0.4	0.1	0.2	0.8	5.7	1.6
19	5.2	8.3	5.6	6.9	2.0	0.8	0.7	0.2	0.2	0.9	6.4	1.4
20	7.8	12.8	5.4	6.4	2.0	0.8	0.6	0.2	0.5	1.0	5.7	1.4
21	12.5	13.8	5.1	6.1	1.8	0.8	0.4	0.1	0.4	1.2	6.2	1.6
22	13.2	13.3	5.1	5.9	1.9	0.7	0.4	0.1	0.5	1.7	6.6	1.8
23	12.8	12.3	4.8	5.6	1.9	0.7	0.5	0.2	0.7	1.9	7.1	2.0
24	9.7	12.0	4.5	5.4	2.2	0.6	0.6	0.2	0.7	1.8	7.2	2.4
25	8.0	12.0	4.4	5.0	2.0	0.6	0.5	0.1	0.7	1.6	7.0	2.6
26	6.7	12.6	5.3	4.7	2.3	0.6	0.3	0.1	0.6	1.5	5.7	3.6
27	5.5	11.5	7.3	4.4	2.1	0.6	0.4	0.1	0.5	1.4	5.1	3.6
28	4.4	9.7	9.3	4.2	2.0	0.4	0.4	0.1	0.5	1.2	4.6	3.9
29	4.1	8.0	8.6	4.1	1.9	0.4	0.3	0.1	0.4	1.2	4.2	4.1
30	4.0		9.7	3.8	1.8	0.4	0.3	0.1	0.3	1.2	3.9	5.4
31	4.3		11.2		1.7			0.1		1.1		6.7
AVG	6.6	9.6	7.2	10.2	2.4	0.9	0.3	0.2	0.3	0.8	3.7	2.8
MAX	13.2	14.2	11.2	16.7	3.4	1.5	0.7	0.6	0.7	1.9	7.2	6.7
MIN	3.6	4.0	4.4	3.8	1.7	0.4	0.1	0.1	0.1	0.3	1.1	1.4
ANNUAL AVG.							3.5					
ANNUAL MAX.							16.7					
ANNUAL MIN.							0.1					

RIVER STAGES AT 7:00
1989

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.8	7.4	3.8	3.8	11.9	17.7	5.4	3.8	7.7	3.7	3.2	3.6
2	6.5	6.9	3.6	3.6	10.1	16.6	4.4	3.6	12.2	3.6	2.9	3.3
3	6.1	6.2	3.4	4.7	9.0	15.0	4.5	3.6	14.9	3.5	3.0	3.2
4	5.4	5.5	3.3	11.2	8.5	14.6	5.1	3.3	15.4	3.3	2.9	3.0
5	4.6	5.0	3.5	13.8	9.1	15.1	4.8	3.1	15.6	3.2	2.8	2.7
6	4.2	4.4	4.7	14.1	7.3	15.5	4.9	2.9	15.7	3.1	2.7	2.6
7	5.4	3.0	5.0	13.8	6.2	16.2	3.3	2.3	15.0	3.1	2.8	2.5
8	6.5	3.3	4.6	12.6	5.5	16.9	2.8	2.6	11.2	3.0	2.8	2.5
9	9.8	3.0	4.4	13.0	5.2	16.9	2.6	2.4	14.6	3.0	2.8	2.4
10	12.4	2.6	4.8	12.9	6.2	16.0	2.3	2.3	17.1	2.9	3.0	2.2
11	12.9	2.1	5.2	12.5	6.2	13.7	2.0	1.9	17.7	2.9	3.1	2.2
12	12.2	2.2	6.0	11.3	5.6	11.9	3.6	1.6	16.7	2.8	3.0	2.1
13	10.6	2.9	6.3	9.9	5.1	11.1	3.9	1.5	13.9	2.7	3.0	2.1
14	9.8	3.5	5.7	8.5	4.9	11.5	4.1	1.3	12.9	2.8	2.9	2.0
15	8.9	3.8	5.1	7.1	4.9	11.1	3.9	1.3	17.6	2.7	3.1	1.9
16	8.2	4.0	5.8	6.2	4.5	10.4	3.5	1.3	16.7	2.4	3.7	1.8
17	7.6	3.9	5.1	5.7	4.2	9.8	3.7	1.4	14.6	2.6	6.2	1.8
18	7.0	3.7	4.5	5.3	3.8	9.3	3.2	1.6	13.0	2.5	7.6	1.8
19	6.5	3.7	4.2	5.2	3.6	9.2	2.7	1.3	11.6	2.7	9.0	1.7
20	6.1	3.9	4.2	5.0	7.1	9.1	3.2	1.2	10.2	2.9	8.8	1.7
21	5.6	4.2	6.3	4.8	9.4	9.2	6.2	1.2	8.8	2.9	8.1	1.7
22	5.4	4.4	6.6	4.5	9.5	9.7	9.7	1.2	7.5	3.3	7.6	1.7
23	5.1	4.3	6.2	4.4	9.3	9.6	7.9	2.2	6.4	3.6	7.1	1.7
24	4.9	3.9	5.7	4.6	8.2	9.1	6.9	5.5	5.7	4.1	6.2	1.7
25	4.6	3.9	5.3	4.3	7.3	8.6	7.9	4.3	5.1	4.6	5.4	1.7
26	4.6	4.3	5.0	3.9	12.6	8.5	7.8	3.1	4.6	4.6	4.9	1.6
27	5.3	4.4	4.7	3.8	17.6	8.1	7.4	2.6	4.4	4.4	4.5	1.6
28	5.9	4.0	4.3	4.6	19.5	7.3	7.2	2.5	4.2	4.0	4.2	1.6
29	7.5		4.1	9.5	19.8	6.7	6.6	7.1	4.2	3.8	3.9	1.6
30	8.3		4.0	12.2	19.5	6.4	5.7	12.1	3.4	3.6	3.7	1.6
31	9.0		4.0		18.8		4.6	13.4		3.3		1.6
AVG	7.2	4.1	4.8	7.9	9.0	11.7	4.9	3.2	11.3	3.3	4.5	2.1
MAX	12.8	6.2	6.6	14.1	19.8	16.9	9.7	13.4	17.7	4.6	9.0	3.2
MIN	4.2	2.1	3.5	3.8	3.6	6.4	2.0	1.2	3.4	2.4	2.7	1.6
ANNUAL AVG.							6.1					
ANNUAL MAX.							19.3					
ANNUAL MIN.							1.2					

RIVER STAGES AT 7:00 AM
1990

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.2	4.6	19.8	6.9	5.7	10.3	5.0	7.8	9.6	2.5	6.6	13.8
2	2.5	5.3	18.9	7.6	5.2	9.6	7.8	6.2	9.2	2.4	6.5	12.7
3	2.6	8.0	18.2	7.8	4.9	9.0	6.9	5.2	8.5	2.2	5.5	11.5
4	2.2	11.0	17.3	7.8	4.7	9.0	5.5	4.9	7.0	2.8	4.7	13.5
5	5.8	13.8	16.5	7.8	4.7	8.4	5.7	4.7	6.0	3.3	4.6	14.2
6	8.2	14.1	15.6	7.4	4.7	7.4	4.2	4.7	5.8	2.9	6.8	14.2
7	8.7	13.5	14.6	6.9	6.9	7.4	3.7	4.5	5.3	2.8	10.0	13.8
8	8.1	12.3	13.7	6.0	8.4	7.6	4.5	4.7	5.4	5.3	12.0	13.1
9	7.2	11.2	12.9	5.8	8.0	12.7	3.0	4.3	5.4	6.2	11.5	12.3
10	6.4	11.4	11.7	5.5	7.4	13.2	2.9	3.5	5.2	9.5	9.7	11.4
11	5.8	11.7	13.9	8.5	6.9	12.3	5.9	3.2	4.9	15.2	9.1	10.3
12	5.5	11.5	17.5	10.0	6.4	12.0	8.2	2.9	4.3	16.2	7.9	9.3
13	5.1	10.9	20.3	10.8	11.0	11.5	9.9	3.4	4.7	16.9	7.4	8.5
14	4.8	10.2	21.8	10.9	14.2	10.5	9.0	5.6	5.1	17.3	6.9	7.7
15	4.4	10.4	22.0	11.4	13.2	9.8	9.5	4.9	5.1	17.6	6.4	7.3
16	4.0	16.1	21.2	10.6	15.4	9.3	9.8	6.6	4.8	17.4	6.5	8.7
17	3.8	17.1	20.1	10.4	18.6	9.0	9.7	6.0	3.4	16.3	6.2	9.1
18	3.7	17.2	18.9	9.4	20.2	8.7	9.2	5.6	3.2	13.7	6.1	9.9
19	3.5	17.2	17.6	8.4	20.7	7.1	7.7	5.3	3.3	12.7	5.9	12.5
20	4.9	17.0	16.1	7.5	20.7	6.7	6.2	7.5	3.3	13.2	5.7	12.6
21	6.6	16.7	14.3	7.5	20.3	11.7	6.6	11.3	3.3	13.1	5.2	12.4
22	6.9	16.4	12.9	7.8	19.2	10.5	7.5	12.5	3.2	12.1	5.1	15.9
23	6.8	16.6	12.0	7.9	17.6	9.8	9.3	13.3	3.1	11.1	4.9	16.4
24	7.3	18.0	11.1	7.9	15.4	8.3	8.5	14.0	3.0	10.1	4.9	17.0
25	7.4	19.5	10.1	7.6	13.6	7.4	9.1	14.4	3.0	9.6	4.9	16.8
26	7.0	20.7	9.3	7.1	13.2	6.7	9.3	13.9	2.9	9.1	4.8	15.9
27	6.5	21.2	8.2	6.5	12.7	6.4	9.1	12.4	2.6	8.8	4.8	13.6
28	6.2	20.7	8.1	6.2	12.3	6.1	8.2	10.8	2.5	8.0	9.2	11.7
29	6.2		7.6	6.0	11.8	5.3	7.3	9.7	2.7	7.6	12.9	11.4
30	5.9		7.2	5.9	11.2	5.2	8.9	9.8	2.6	7.3	13.4	18.0
31	5.1				11.0		10.6	9.7		6.7		22.6
AVG.	5.5	14.1	14.5	7.9	11.8	9.0	7.4	7.5	4.6	9.7	7.2	12.9
MAX.	8.7	21.2	22.0	11.4	20.7	13.2	10.6	14.4	8.5	17.6	13.4	22.6
MIN.	3.5	10.2	7.2	5.5	4.7	5.2	2.8	2.9	2.5	2.8	4.6	7.3
ANNUAL AVG.							9.7					
ANNUAL MAX.							22.6					
ANNUAL MIN.							2.5					

RIVER STAGES AT 7:00 AM
1991

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24.4	10.8	7.2	14.2	6.5	8.8	2.0	0.8	0.9	1.1	6.2	5.5
2	25.9	9.6	7.0	12.6	6.5	11.2	1.9	0.9	0.9	1.1	5.8	6.0
3	25.7	8.7	6.8	11.4	6.1	12.5	1.9	0.9	0.6	1.1	5.5	6.5
4	24.4	8.5	7.6	9.8	5.8	12.1	2.0	0.9	0.6	1.0	5.1	6.4
5	22.8	9.6	8.0	8.8	5.7	10.9	2.2	0.5	0.6	1.0	4.9	6.5
6	21.4	11.4	7.7	8.3	5.7	9.6	2.4	1.3	0.7	1.0	4.4	7.1
7	20.1	13.2	7.3	7.5	6.6	8.7	2.4	1.2	0.7	1.8	3.9	6.8
8	19.2	14.4	7.0	7.3	7.2	8.3	2.3	1.1	0.7	1.9	3.8	6.5
9	18.2	14.8	6.6	7.5	6.3	7.5	2.1	1.3	0.5	1.9	3.1	5.9
10	17.1	14.7	5.9	7.5	5.8	6.7	2.0	1.2	0.5	1.7	3.0	5.3
11	16.3	14.3	5.0	7.2	5.8	6.0	3.1	1.3	0.5	1.5	2.9	4.9
12	16.2	13.3	6.0	7.1	5.8	5.4	4.0	1.4	0.5	1.5	2.5	4.8
13	16.1	11.8	6.5	6.9	5.9	4.4	5.1	1.4	0.5	1.5	2.5	4.5
14	15.9	10.6	12.6	7.3	5.8	4.2	2.9	1.3	0.5	1.2	2.4	4.5
15	15.7	11.8	14.3	8.4	6.3	4.0	2.4	1.3	0.5	1.2	2.5	4.5
16	15.9	9.0	13.7	10.5	6.6	3.9	2.1	1.2	0.5	1.2	2.4	7.5
17	16.8	7.8	12.4	12.8	6.8	4.0	1.8	1.0	0.6	1.2	2.4	6.9
18	17.5	7.3	12.8	13.5	7.5	3.5	1.8	1.0	0.6	1.2	2.3	5.9
19	17.7	8.0	14.3	12.9	11.9	3.8	1.7	1.0	0.6	1.2	2.3	5.3
20	17.9	8.8	15.2	11.9	12.3	3.3	1.7	0.9	0.6	1.2	3.0	4.7
21	17.9	9.9	15.8	10.9	10.6	3.1	1.7	1.0	0.8	1.2	6.0	4.6
22	17.5	11.8	16.5	10.3	8.6	3.1	1.5	1.0	0.7	1.2	7.5	4.0
23	16.9	12.3	17.6	10.9	7.3	3.2	1.3	0.9	0.7	1.2	9.8	3.9
24	16.3	12.1	18.1	10.6	6.8	2.9	1.3	1.2	0.7	1.2	10.1	3.8
25	15.6	11.5	17.8	10.3	7.4	2.7	1.2	1.2	0.7	1.2	9.3	4.1
26	15.3	10.0	17.1	9.3	7.7	2.6	1.1	0.9	1.0	1.4	8.3	4.2
27	14.5	8.5	17.1	9.0	8.6	2.5	1.0	0.9	1.0	2.5	7.6	4.1
28	13.9	7.7	17.1	8.0	8.4	2.2	1.0	0.9	0.9	3.2	6.8	3.7
29	13.3		16.9	7.2	8.1	2.0	1.0	0.7	0.9	5.9	6.0	3.7
30	12.5		16.4	6.9	8.2	2.0	1.0	0.7	0.9	7.5	5.1	3.5
31	12.6		15.5		8.4		1.0	0.6		6.8		3.2
AVG.	17.8	10.8	11.9	9.6	7.3	5.5	2.0	1.0	0.7	1.9	4.9	5.1
MAX.	25.7	14.8	18.1	13.5	12.3	12.5	5.1	1.4	1.0	7.5	10.1	7.5
MIN.	12.5	7.3	5.0	6.9	5.7	2.0	1.0	0.5	0.5	1.0	2.3	3.2
ANNUAL AVG.							5.5					
ANNUAL MAX.							18.2					
ANNUAL MIN.							0.5					

RIVER STAGES AT 7:AM
1992

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.9	4.5	4.9	6.6	9.0	2.5	2.6	16.3	2.9	7.8	3.4	14.1
2	3.2	4.3	4.4	6.8	8.7	2.5	2.2	17.1	3.3	6.4	10.4	13.4
3	3.2	4.3	4.1	6.8	8.3	2.5	2.4	17.0	3.1	6.4	16.0	12.4
4	3.2	4.3	3.9	6.4	7.9	2.7	2.7	15.5	2.6	5.9	17.6	11.6
5	3.0	4.2	3.5	6.1	7.6	2.8	2.6	12.8	2.5	4.3	18.5	10.7
6	3.5	4.5	4.4	6.2	7.1	2.8	2.4	10.9	2.4	4.1	18.6	10.3
7	3.3	4.8	3.5	5.8	6.7	2.9	2.1	9.9	2.3	3.8	18.4	9.9
8	3.3	5.0	3.4	5.4	5.8	3.0	2.9	9.1	1.8	3.5	17.9	9.6
9	3.5	5.0	3.4	4.9	5.0	4.3	2.9	8.6	1.8	3.3	16.4	9.2
10	3.3	4.3	3.7	4.8	4.6	4.3	3.2	7.9	2.1	3.0	12.5	8.8
11	3.4	3.8	4.4	4.6	4.2	3.8	3.2	7.4	2.9	2.7	11.4	8.8
12	3.3	3.3	5.0	4.4	4.1	3.3	3.2	6.7	4.3	2.6	16.1	8.7
13	3.6	3.1	6.0	5.0	4.0	2.9	4.2	5.5	8.3	2.5	20.7	8.6
14	3.6	3.4	6.6	5.2	3.9	2.8	6.7	4.2	8.1	2.6	22.3	8.8
15	3.7	3.0	6.3	5.4	3.8	2.8	8.7	3.5	6.7	2.5	22.3	9.0
16	3.4	2.9	5.9	6.5	3.8	2.5	13.1	3.3	5.8	2.5	22.0	9.3
17	3.3	4.5	5.4	10.1	3.7	2.5	14.1	3.0	5.5	3.7	21.8	10.5
18	3.2	5.9	5.2	14.9	3.6	2.3	15.2	2.7	5.2	6.4	21.3	12.2
19	3.1	8.7	6.3	17.0	3.3	2.3	15.8	2.5	5.1	7.7	20.5	13.0
20	3.5	10.0	6.9	17.9	3.1	3.6	16.1	2.3	4.9	7.7	19.3	12.4
21	3.6	10.0	9.1	17.9	3.1	6.4	15.7	1.9	3.9	7.4	17.6	11.7
22	3.6	9.1	9.3	17.7	3.1	7.3	13.9	2.4	5.4	6.3	15.5	11.2
23	3.7	8.7	9.6	17.3	3.1	7.0	11.8	2.0	7.5	5.4	16.3	10.6
24	4.3	7.7	9.0	16.3	3.0	6.7	11.1	2.0	10.1	4.9	17.1	10.0
25	4.7	6.9	8.1	14.6	3.0	6.4	13.4	2.1	10.2	4.8	17.3	8.7
26	4.9	6.3	7.6	13.8	3.0	6.1	13.0	2.1	9.7	4.6	17.5	8.1
27	6.0	5.8	7.1	12.2	2.9	5.6	14.0	2.2	9.2	4.2	17.5	8.1
28	6.2	5.2	6.6	11.4	2.8	5.4	14.4	2.7	9.1	4.0	17.0	7.9
29	5.8		6.6	10.4	2.8	4.4	13.8	3.1	10.1	3.7	16.3	7.8
30	5.3		6.7	9.4	2.6	4.2	12.2	3.1	9.3	3.4	15.1	9.0
31	4.9		6.7		2.5		14.4	2.9		3.4		10.9
AVG.	3.9	5.5	5.9	9.7	4.5	4.0	8.8	6.2	5.5	4.6	17.2	10.2
MAX.	6.2	10.0	9.6	17.9	8.3	7.3	16.1	17.0	10.2	7.7	22.3	13.0
MIN.	3.0	2.9	3.4	4.4	2.5	2.3	2.1	1.9	1.8	2.5	11.4	7.8
ANNUAL AVG.							7.5					
ANNUAL MAX.							22.3					
ANNUAL MIN.							1.8					

RIVER STAGES AT 7:00 AM

1993

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.5	15.3	6.3	11.2	17.3	6.0	13.0	6.9	2.7	11.0	6.7	15.6
2	14.7	13.6	6.8	13.3	15.9	6.9	15.5	6.7	2.7	9.5	6.3	14.8
3	14.9	12.2	7.6	14.7	13.7	7.0	17.3	7.4	5.9	8.4	6.1	14.9
4	15.9	10.7	12.0	15.4	12.1	6.6	18.8	6.8	12.9	7.4	6.0	15.5
5	18.7	9.9	16.5	16.0	12.1	7.7	19.2	5.8	11.9	6.4	5.8	15.6
6	20.6	9.3	17.4	16.2	12.2	9.7	19.2	5.2	10.8	5.6	5.7	15.9
7	21.8	8.8	17.9	14.8	12.2	10.0	18.8	4.6	9.2	5.3	5.7	15.8
8	22.6	8.3	18.2	11.9	11.3	9.0	17.4	4.1	8.3	5.0	5.2	14.9
9	23.2	7.9	18.3	10.0	10.2	8.4	14.9	3.6	9.1	4.8	4.8	14.0
10	22.5	7.6	18.5	9.8	9.3	9.4	13.1	3.3	8.7	8.7	4.6	13.3
11	21.4	7.4	18.4	9.7	8.4	11.5	12.1	3.1	6.8	8.5	4.6	11.6
12	20.3	7.5	18.2	10.5	7.7	12.1	13.9	3.6	5.8	7.9	4.6	10.3
13	19.4	7.9	18.0	11.3	7.6	11.2	15.5	9.2	5.1	7.1	4.6	9.3
14	18.6	8.1	17.7	11.9	7.3	10.3	15.4	6.2	5.0	6.7	7.8	8.8
15	17.7	7.7	17.0	14.8	7.6	9.5	14.8	5.5	7.6	5.9	17.0	8.6
16	17.0	7.3	16.4	16.6	7.3	10.1	14.3	4.5	12.3	5.2	18.3	9.1
17	16.3	7.1	15.5	17.8	6.9	10.5	14.4	5.2	13.6	6.4	18.2	9.3
18	15.7	6.5	13.8	17.9	6.3	9.7	13.6	13.9	13.5	14.8	19.0	8.9
19	15.0	6.2	12.5	17.3	6.2	8.2	13.6	8.0	11.2	16.2	20.2	8.7
20	14.1	5.7	11.9	16.5	5.6	8.7	13.6	5.8	8.9	16.3	19.9	8.6
21	15.5	6.2	11.8	15.7	5.2	7.4	13.1	9.1	7.3	16.4	19.3	8.6
22	16.9	7.3	11.7	14.8	5.0	8.9	11.5	7.9	6.5	16.2	18.5	9.1
23	17.9	7.7	11.6	13.6	5.0	8.3	10.2	7.1	6.5	15.9	17.7	9.0
24	18.3	7.4	11.3	12.4	4.9	7.3	10.2	5.8	7.1	15.0	16.1	8.8
25	19.0	6.7	15.5	11.1	6.4	6.9	10.2	4.7	6.3	12.8	14.8	8.1
26	19.3	6.3	15.9	15.5	7.5	6.7	11.1	4.1	8.0	10.7	14.2	7.8
27	19.3	6.4	16.4	17.1	7.5	6.6	12.0	3.8	8.3	9.6	15.0	7.3
28	18.9	6.2	16.2	17.9	7.2	5.7	11.1	3.4	10.3	8.8	15.9	6.8
29	18.5		15.4	17.9	6.8	6.0	10.0	3.2	11.9	8.1	16.2	6.5
30	17.7		13.3	17.7	6.4	9.5	9.2	3.1	12.1	7.6	16.1	6.3
31	16.8		11.0		5.6		7.8	2.8		7.2		6.0
AVG.	18.1	8.2	14.5	14.4	8.5	8.5	13.7	5.6	8.5	9.5	11.8	10.6
MAX.	23.2	12.2	18.5	17.9	13.7	12.1	19.2	13.9	13.6	16.4	20.2	15.9
MIN.	14.1	5.7	11.0	9.7	4.9	5.7	7.8	2.8	5.0	4.8	4.6	6.0
ANNUAL AVG.							10.4					
ANNUAL MAX.							20.2					
ANNUAL MIN.							2.8					